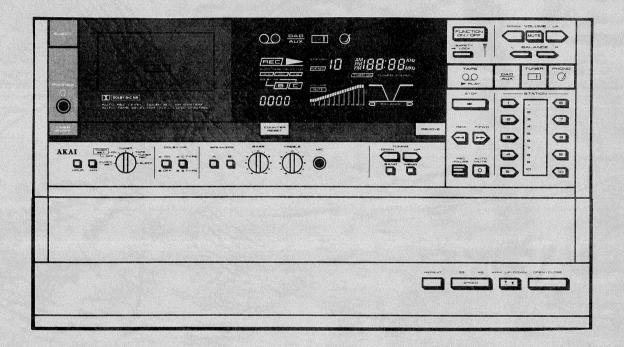
AKAI SERVICE MANUAL



Hi-Fi COMPOSITE SYSTEM

MODEL F-3/L (FD-3/L, FP-3)

- Refer to F-1 (FD-1+FP-3) Service Manual for the turntable model FP-3.
- This manual is also applicable for the model FD-3 in the composite system F-5/L
- Refer to F-7/L Service manual for the turntable model FP-7 in the composit system F-5/L.

ABBREVIATIONS FOR SERVICE MANUAL MODEL F-3/L (FD-3/L, FP-3)

ABBREVIATION	EXPLANATION
AC	ACcumulator
ALU	Arithmetic and Logic Unit
A.R	Anti Recording
CF	Carry Flag
CG	Clock Generator
CK	ClocK
COM	COMmon
CPU	Central Processing Unit
DC	Data Counter
\mathbf{F}	Filament
, FD	Frequency Divider
FLD	FLuorescent Display
GF	General Flag
"H"	High (Referring to voltage)
INH	INHibit
INT	INTerrupt
INTR	INTeRruption
IR	Instruction Register
"L"	Low (Referring to voltage)
MEMO	MEMOry
MIN	MINute
NC	No Connection
NP	No Pins
PC	Programme Counter
PLL	Phase Locked Loop
RAA	Random Access memory Address
RAM	Random Access Memory
ROM	Read Only Memory
S/C	Start/Cut
SCK	Serial ClocK
SF	Status Flag
SPW	Stack Pointer Word
STB	STroBe
SI	Serial Input
SO	Serial Output
TC	Timer Counter
TG	Timing Generator
X IN	crystal INput
X OUT	crystal OUTput
ZF	Zero Flag



Hi-Fi COMPOSITE SYSTEM

$_{\text{model}}\,F\text{-}3/L\,\text{(FD-}3/L,\text{FP-}3)$

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	SCHEMATIC DIAGRAM		

SAFETY INSTRUCTIONS

SAFETY CHECK AFTER SERVICING

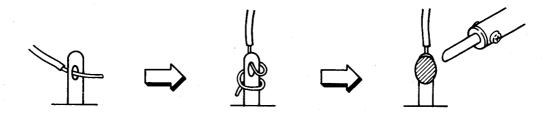
Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for \boxed{C} or \boxed{A} , specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks. line-in-out jacks etc.)

PRECAUTIONS DURING SERVICING

- 1. Parts identified by the \(\Delta\) symbol parts are critical for safety. Replace only with parts number specified.
- 2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

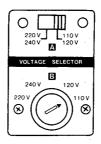
- 3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing microswitch (especially in turntable)
- 5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



- 6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
- 7. Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- 9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.
- Voltage conversion

Models for Canada, USA, Europe, UK and Australia are not equipped with this facility. Each machine is preset at the factory according to destination, but some machine can be set to 110V, 120V, 220V or 240V. If your machine's voltage can be converted:

- 1) Disconnect the power cord.
- 2) Move the VOLTAGE SELECTOR A and B located on the rear panel with a screwdriver until the correct voltage is indicated.





SECTION 1

SERVICE MANUAL MODEL FD-3

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

I. SPECIFICATIONS

RATED POWER OUTPUT	30 W per channel, minimum RMS, at 8	ohms		
(2 channel driven)	from 20 to 20,000 Hz with no more than 0.05% total harmonics distortion 35 W into 8 ohms at 1 kHz, with no more than 0.05% total harmonic distortion			
MUSIC POWER	86 W per channel, at 8 ohms			
INPUT SENSITIVITY	Phono: 2.5 mV/47 kohms AUX: 230 mV/47 kohms			
OUTPUT	REC OUT: 150 mV SPEAKERS A or B $6\Omega \sim 16\Omega$, A + B	$12\Omega \sim 16\Omega$		
TUNER SECTION				
EDECHENICA DANCES		L model		
FREQUENCY RANGES	FM87.4 to 108.1 MHz AM 522 to 1,611 kHz (9k step)	FM87.4 to 108.1 MHz		
•	or 530 to 1,610 kHz (10k step)	MW 522 to 1,611 kHz LW 146 to 353 kHz		
USABLE SENSITIVITY	FM (IHF) 11.2 dBf	FM (IHF) 11.2 dBf		
	AM $300 \mu\text{V/m}$	MW 300 μ V/m		
OLOMAN TO MONTH TO THE		LW 300 μV/m		
SIGNAL TO NOISE RATIO	FM 75 dB (MONO)/65 dB (STEREO) AM 40 dB	FM 75 dB (MONO)/65 dB (STEREO) MW 40 dB		
	AM TOUD	MW 40 dB LW 35 dB		
STEREO SEPARATION	FM (1 kHz) 45 dB	FM (1 kHz) 45 dB		
ANTENNAS	FM: EXT. ANT 75 ohms unbalanced			
	AM: (MW/LW) Loop ANT.			
CASSETTE DECK SECTI	ON			
TRACK SYSTEM	4 track 2 channel stereo			
MOTORS	Electronically speed controlled DC moto	or		
FREQUENCY RESPONSE	Metal 30 to 17,000 Hz ±3dB			
	Chrome 30 to 16,000 Hz ±3 dB Normal 30 to 15,000 Hz ±3 dB			
SIGNAL TO NOISE RATIO	56 dB			
	Dolby C type NR ON: Improves up to 2 Dolby B type NR ON: Improves up to 3	15 dB at 500 Hz, 20 dB at 1 kHz to 10 k		
WOW AND FLUTTER	0.05% (WRMS), 0.09% (DIN 45500)	o dB at 1 kHz, 10 dB above 5 kHz		
DISTORTION	0.8% (WRMS), 0.09% (DIN 45500)			
MIC INPUT	1.5 mV			
	1.5 111 V	19 10-11		
	EM F-3/L (FD-3/L & FP-3)			
POWER CONSUMPTION	U Model: 135 W C, A Models: 180 V	<u>V</u>		
POWER REQUIREMENTS	120 V 50 Hz for U.S.A. and Canada	, YT T7		
	220 V 50 Hz for European countries ex 240 V 50 Hz for U.K. and Australia	cept U.K.		
	110/120/220/240 V switchable, 50/60 H	Iz for other countries		
DIMENSIONS	440(W) × 250(H) × 320(D) mm			
WEIGHT	16.6 kg			
WIRELESS REMOTE CON	NTROL (TRANSMITTER)			
10000	Infrared Ray, PCM System			
AREA OF OPERATION	7 m (on axis)			
DIRECTIVITY	60° (on axis)	-		
OPERATION TIME	10,000 times			
		VIII.		
OWER REQUIREMENT	DC 3V (R6 or AA size dry battery v 2)			
POWER REQUIREMENT DIMENSIONS	DC 3V (R6 or AA size dry battery \times 2) $100 \times 25 \times 131 \text{ mm}$			

^{*} For improvement purposes, specifications and design are subject to change without notice.

150 g (without batteries)

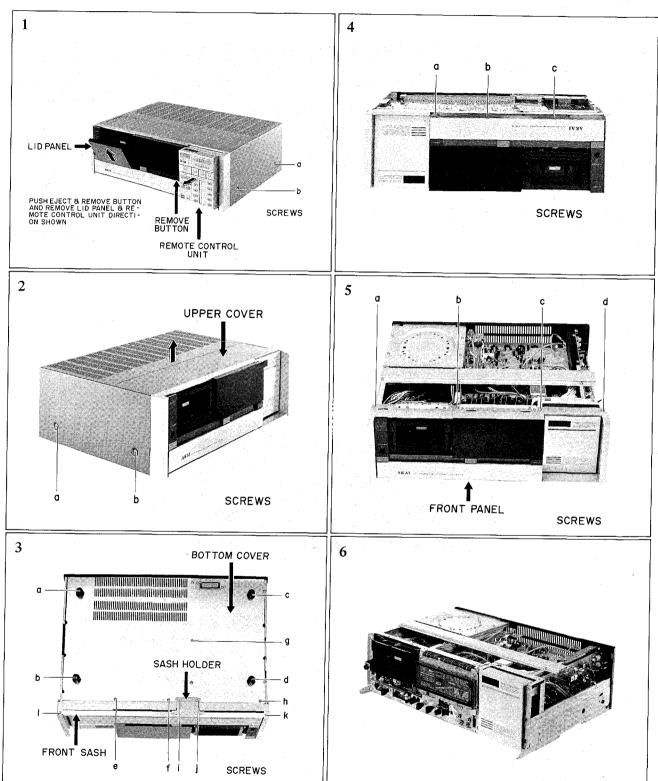
WEIGHT

^{*} Noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

[&]quot;Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



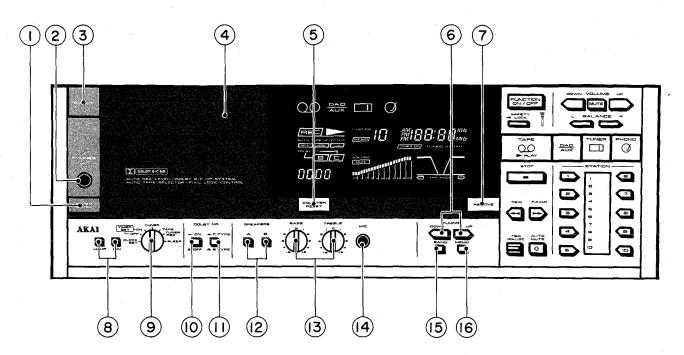


Fig. 3-1 Front View

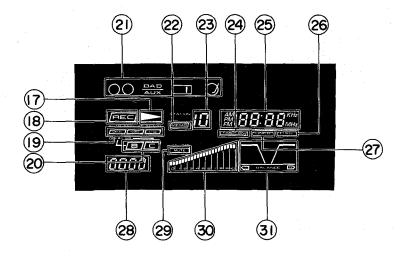


Fig. 3-2 Display

- 1. TIMER ON/OFF SWITCH
- 2. PHONES JACK
- 3. EJECT BUTTON
- 4. CASSETTE HOLDER
- 5. COUNTER RESET BUTTON
- 6. TUNING (UP/DOWN) BUTTONS
- 7, REMOVE BUTTON
- 8. TIMER ADJUSTMENT (HOUR/MIN) BUTTONS
- 9. TIMER MODE SELECTOR
- 10. DOLBY ON/OFF SWITCH
- 11. DOLBY B/C SWITCH
- 12. SPEAKERS ON/OFF (A/B) BUTTONS
- 13. TONE CONTROLS (BASS/TREBLE)
- 14. MICROPHONE JACK
- 15. BAND SELECTOR BUTTON
- 16. TUNING MEMO BUTTON

- 17. TAPE TRAVEL INDICATOR
- 18. REC INDICATOR
- 19. TAPE POSITION INDICATORS
- 20. DOLBY NR INDICATORS
- 21. INPUT SELECTOR INDICATORS
- 22. MEMO INDICATOR
- 23. PRESET STATION INDICATORS
- 24. TIMER ON INDICATOR
- 25. TIME and TUNER FREQUENCY INDICATOR
- 26. STEREO INDICATOR
- 27. TUNED INDICATOR
- 28. TAPE COUNTER
- 29. MUTE INDICATOR
- 30. VOLUME INDICATOR
- 31. BALANCE INDICATOR

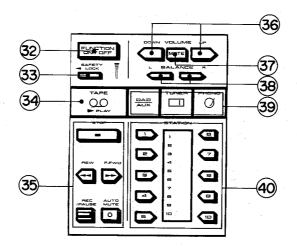


Fig. 3-3 Remote Control Unit

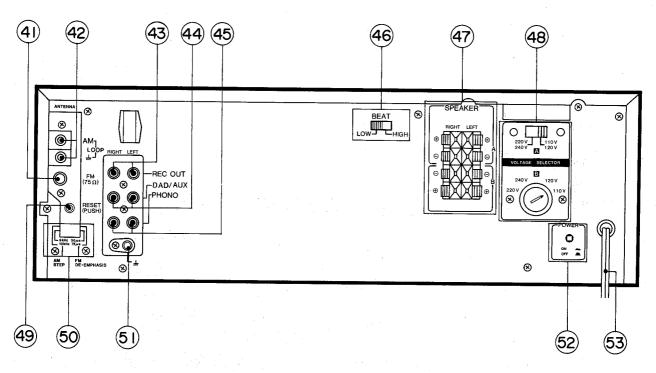


Fig. 3-4 Rear View

- 32. FUNCTION SWITCH
- 33. SAFETY LOCK SWITCH
- 34. TAPE PLAY BUTTON
- 35. TAPE OPERATION BUTTON
- 36. VOLUME CONTROL (UP/DOWN) BUTTONS
- 37. MUTE BUTTON
- 38. BALANCE CONTROL (L/R) BUTTONS
- 39. INPUT SELECTOR BUTTONS
- 40. PRESET STATION BUTTONS (1 to 10)

- 41. FM ANTENNA TERMINAL
- 42. AM ANTENNA TERMINALS
- 43. REC OUT JACKS
- 44. DAD/AUX JACKS
- 45. PHONO JACKS
- 46. BEAT CANCEL SWITCH
- 47. SPEAKER TERMINALS
- 48. VOLTAGE SELECTOR (A/B): U MODEL ONLY
- 49. PRESET BUTTON
- 50. AM STEP/FM DE-EMPHASIS SELECTOR
- 51. GROUND TERMINAL
- 52. POWER SWITCH
- 53. AC POWER CORD

IV. PRINCIPAL PARTS LOCATION (Refer to Figs.4-1, 4-2)

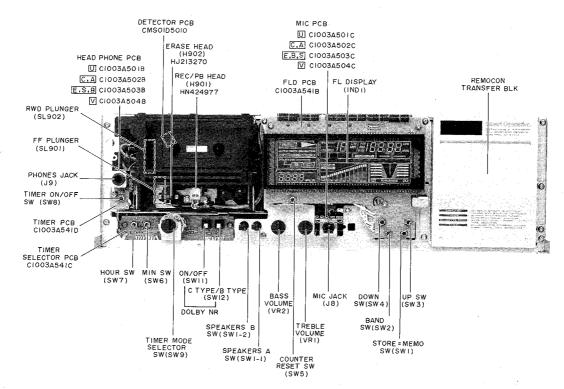


Fig. 4-1 Front View

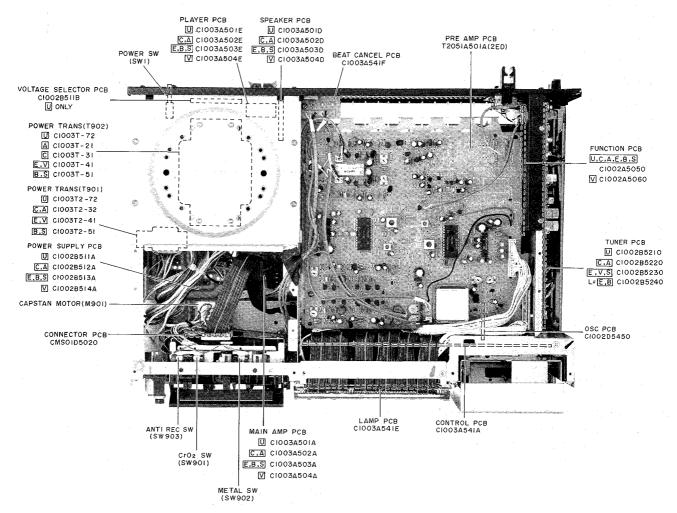


Fig. 4-2 Top View

V. MECHANICAL ADJUSTMENT (CASSETTE DECK SECTION)

5-1 PINCH ROLLER PRESSURE MEASUREMENT (Refer to Fig. 5-1)

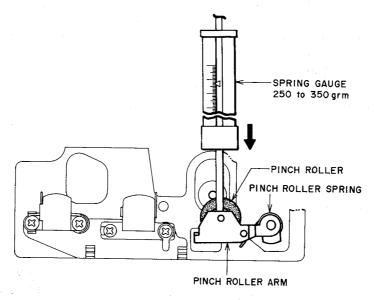


Fig. 5-1

Put in Play mode. Push pinch roller arm down with the spring gauge so that the pinch roller is 1 to 2 mm away from the capstan shaft and release slowly. Read the spring gauge at the moment the pinch roller

touches the capstan and begins to rotate. Specified pinch roller pressure is 250 to 350 grams. If the correct measurement is not obtained, replace the pinch roller spring.

5-2 TAPE-UP TORQUE AT VARIOUS MODES

Use a Cassette Torque Meter (AJ-751179) to confirm the following torque values at each mode.

Play mode:

20 to 60 g-cm (Take-up Torque)

2 to 5 g-cm (Back Tension Torque)

FF/RWD mode: 70 to 110 g-cm (Winding Torque)

5-3 TAPE SPEED ADJUSTMENT (Refer to Fig. 5-2)

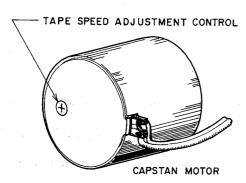


Fig. 5-2 Tape Speed Adjustment

Connect a frequency counter to Line Output terminal. Playback a 1,000 Hz pre-recorded Test Tape (AT-750744) or 3,150 Hz pre-recorded Test Tape (AT-751263), and adjust the Tape Speed Adjustment Variable Resistor to obtain a tape speed of 1,000 Hz \pm 1% or 3,150 Hz \pm 1%.

5-4 REC/PB HEAD AZIMUTH AUGNMENT (Refer to Fig. 5-3)

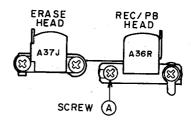


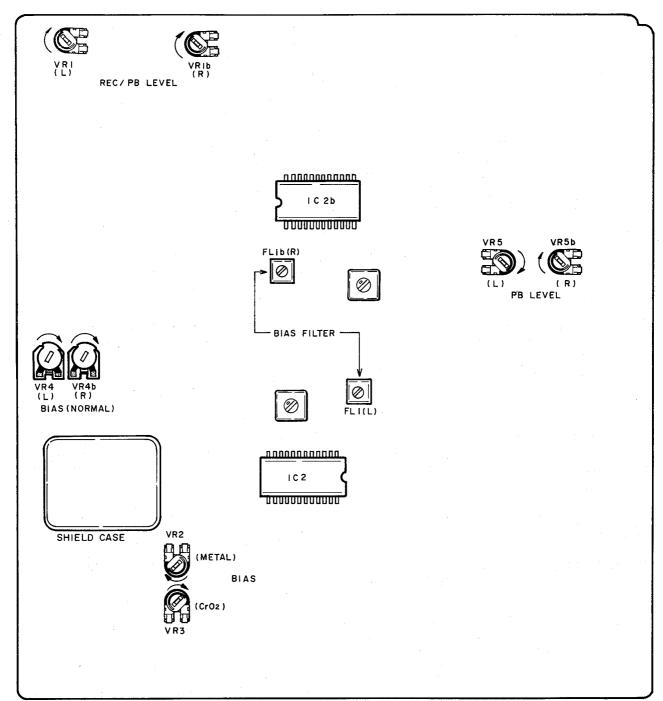
Fig. 5-3 Top View of the Heads

Playback a 10 kHz Azimuth Alignment Tape (AT-750778) and adjust the screw (A) to obtain the maximum output levels on both channels. Paint-lock the screw (A) after this adjustment.

NOTES: 1. Be sure to clean the heads prior to this adjustment.

- 2. Be careful not to use a magnetized driver or other magnetized tools in the vicinity of head area.
- 3. Be sure to demagnetize the heads before and after the adjustment.

6-1 PRE-AMPLIFIER ADJUSTMENT (Refer to Fig. 6-1)



FRONT SIDE

PRE AMP PCB T205IA50IA (2ED)

Fig. 6-1 Pre-Amplifier Adjustment Points

Step	Adjustment Item	Test Tape Supply Signal	Mode	Adjustment Point	Result	Remarks
1	Play Back level	315 Hz or 333 Hz	P.B	VR5	(315 Hz) -5.5 ±0.2 dBm or (333 Hz) -6.1 ±0.2 dBm	*See Note 1.
2	NORMAL Position Frequency Response	Normal Blank Tape 1,000 Hz, 10,000 Hz -25.5 dBm Recording	REC/P.B	VR4	1,000 Hz and 10,000 Hz levels are within ±0.5 dB	*See Note 2.
3	CrO ₂ Position Frequency Response	CrO ₂ Blank Tape 1,000 Hz, 10,000 Hz -25.5 dBm Recording	REC/P.B	VR3	1,000 Hz and 10,000 Hz levels are within ±0.5 dB	*See Note 2.
4	METAL Position Frequency Response	Metal Blank Tape 1,000 Hz, 10,000 Hz -25.5 dBm Recording	REC/P.B	VR2	1,000 Hz and 10,000 Hz levels are within ±0.5 dB	*See Note 2.
5	Recording level	Normal Blank Tape 1,000 Hz, -5.5 dBm Recording	REC/P.B	VR1	-5.5 ±0.3 dBm (410 mV)	*See Note 2.
6	Bias Filter	METAL Blank Tape No Signal input	REC PAUSE	FL1	AC Voltmeter Indicates minimum	

NOTE 1: As the test tape has been changed, set to -6.1 ± 0.2 dBm when using 333 Hz test tape. For details, refer to Service Guide (No. 0012) issued in Nov., 1982.

NOTE 2: Use the following cassette measuring tapes.

Normal tape : Maxell UD C-60 CrO₂ tape : TDK SA C-60 Metal tape : TDK MA C-60

6-2 TUNER ADJUSTMENT

6-2-1 TUNER P.C BOARD ADJUSTMENT POINTS

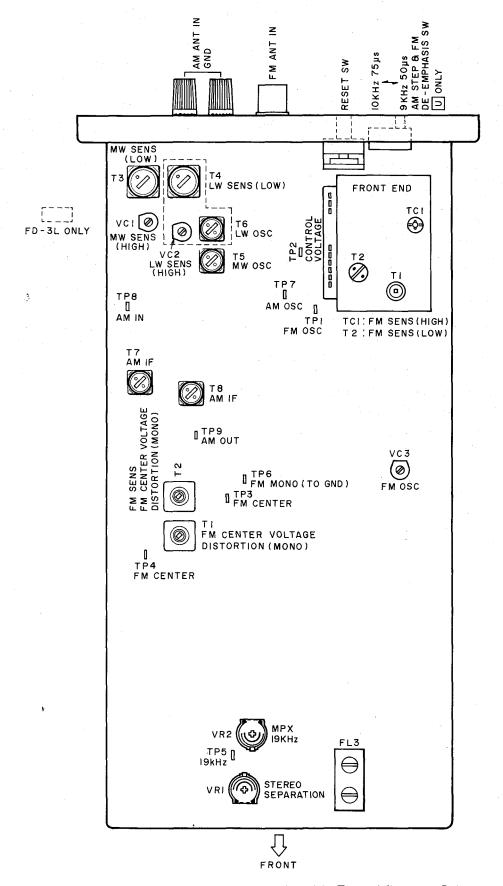


Fig. 6-2 Tuner Adjustment Points

6-2-2 FM SECTION ADJUSTMENT (Refer to Figs. 6-2 & 6-3)

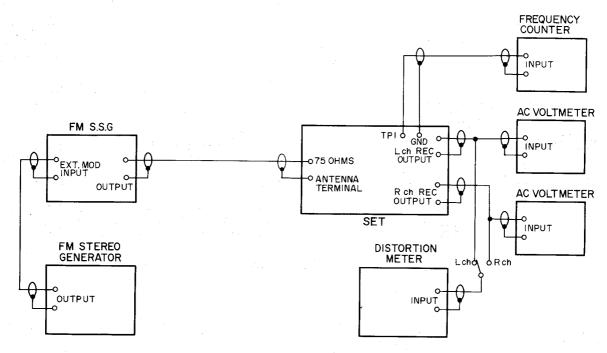


Fig. 6-3 Instrument Connections for FM Section Adjustment

Step	Adjustment Item	Adjustment Point	Result	Remarks
1	FM OSC	VC3	98.7 MHz ± 1 kHz	 Band to FM. Display to 88 MHz. Frequency Counter to TP1.
2	Low Range Sensitivity	T2 (FRONT END)	Less than 6 dB	 88 MHz, Mono input. Connect TP6 to ground. Display to 88 MHz. 3% Distortion Factor.
3	High Range Sensitivity	TC1 (FRONT END)	Less than 6 dB	108 MHz input.Display to 108 MHz.
4			• Repeat Steps 2 & 3	
5	FM Center Voltage	T1,2	Centered Tuning Meter Indication	 Center Tuning Meter between TP3 & TP4. Tune only noise without interference from broadcasting.
6	MPX 19 kHz	VR1	More than 38 dB	 98 MHz, 60 dB, Mono input. Display to 98 MHz. Frequency Counter to TP5.
7	Stereo Separation	VRI	More than 38 dB	 98 MHz, 60 dB, Stereo L CH (R CH) input. Display to 98 MHz. Minimum output of R CH (L CH).

NOTES: 1. Set the internal modulation signal generator to 100% (75 kHz div.), 1 kHz of each.

2. The center tuning meter such as the ones used on Models AA-R20, 30, 40, 50 or AT-2400, 2600 can be used for this adjustment.

If they are not available, use a digital voltmeter (DC VOLTAGE, RANGE 20V) instead, and adjust T1, 2 so that it indicates 0V at the same condition.

6-2-3 AM (MW, LW) SECTION ADJUSTMENT (Refer to Figs. 6-2 & 6-4)

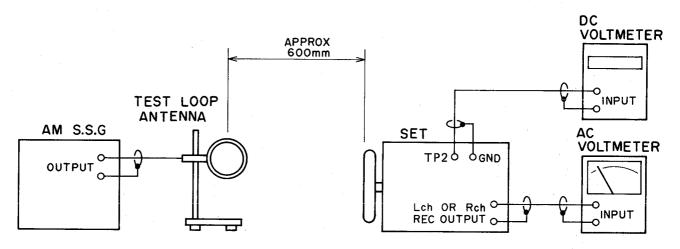


Fig. 6-4 Instrument Connections for AM Section Adjustment

Step	Adjustment Item	Adjustment Point	Result	Remarks	
1	MW OSC	T5	1.8 ± 0.2V at 530 kHz (522 kHz) Less than 20V at 1,610 kHz(1,611 kHz)	 Band to MW (AM). Voltmeter to TP2. Display to 530 kHz (522 kHz) & 1,610 kHz (1,611 kHz). 	
2	AM IF	T7,8	Maximum output Minimum distortion	 1,000 kHz (999 kHz), 100 dB input. Display to 1,000 Hz (999 kHz). 	
3	MW Low Range Sensitivity	Т3	Less than 60 dB	 600 kHz (603 kHz) input. Display to 600 kHz (603 kHz). Less than 10% Distortion Factor. 	
4 .	MW High Range Sensitivity	VC1	Less than 60 dB	 1,400 kHz (1,404 kHz) input. Display to 1,400 kHz (1,404 kHz). 	
-5	• Repeat Steps 3 & 4.				
6	LW OSC	Т6	1.8 ± 0.2V at 146 kHz Less than 20V at 353 kHz	 Band to LW. Voltmeter to TP2. Display to 146 kHz & 353 kHz. 	
7	LW Low Range Sensitivity	T4	Less than 65 dB	 155 kHz input. Display to 155 kHz. Less than 10% Distortion Factor. 	
8	LW High Range Sensitivity	VC2	Less than 65 dB	299 kHz input.Display to 299 kHz.	
9	• Repeat Steps 7 & 8.				
10	TUNED Indicator level	NONE (Confirmation)	TUNED Indicator is lit.	 Band to MW. 1,000 kHz (999 kHz), 74 dB input. Display to 1,000 kHz (999 kHz). 	

NOTES: 1. Set the internal modulation signal generator to 30%, 1 kHz of each.

2. Use a digital voltmeter for the adjustments in Steps 1 & 6.

3. (kHz) in Result and Remarks indicates the test frequencies for AM 9 kHz STEP area.

VII. DC RESISTANCE OF VARIOUS COILS

	Parts Name	DC Resistance
Description	Parts Name	
REC/PB HEAD	HN424977	210 ohms ±20%
ERASE HEAD	НЈ213270	3.5 ohms
PLUNGER SOLENOID	0730PLT	144 ohms ±10%
RELAY	LAB2NS	100 ohms
RELAY	G2R-1112PFD-V	275 ohms ±10%

VIII. CLASSIFICATION OF VARIOUS P.C BOARDS

8-1 P.C BOARD TITLES AND IDENTIFICATION NUMBERS

MODEL FD-3

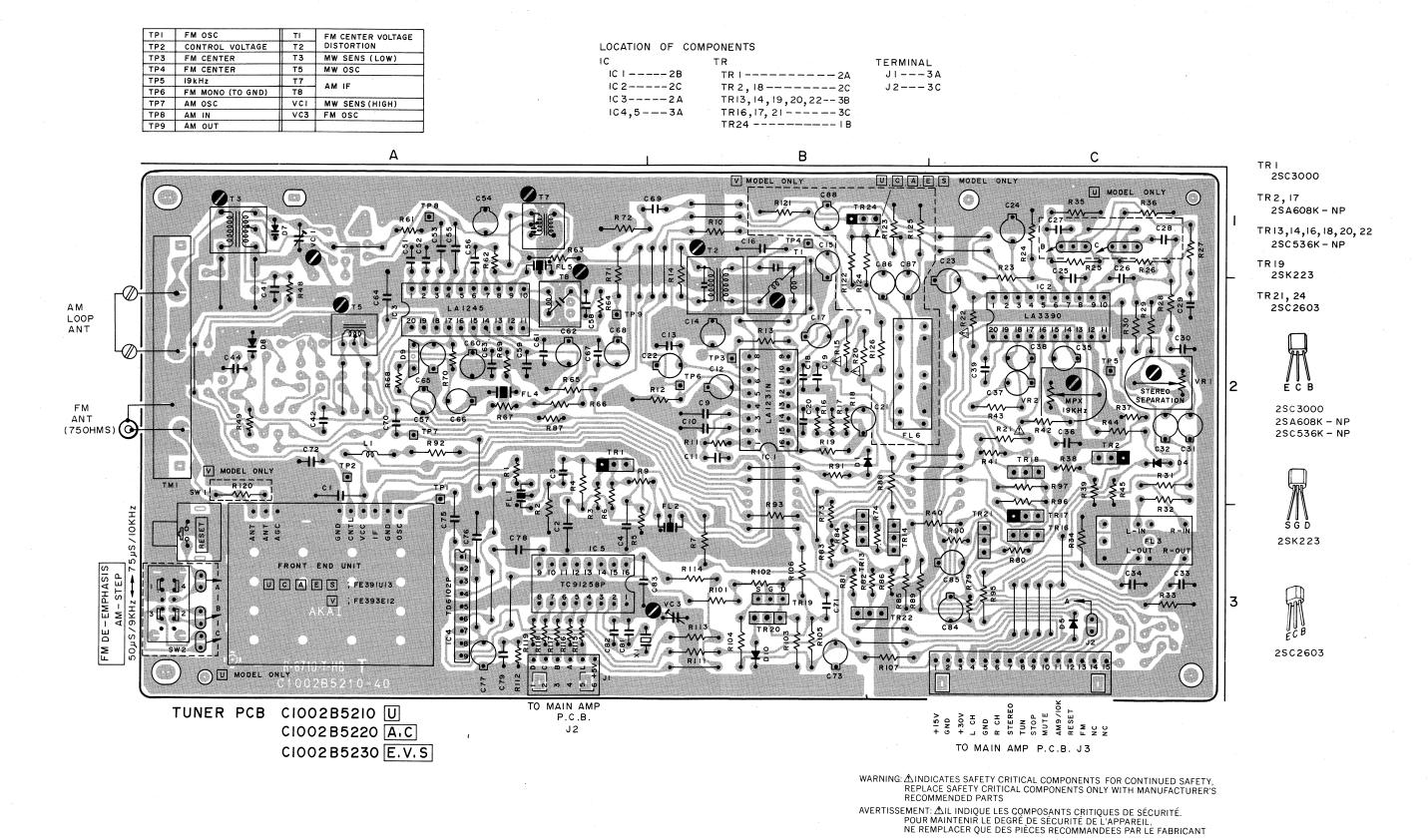
			T
P.C Board	Title	P.C Board Number	Notes
Main Amp	P.C Board	C1003A501A	U
Main Amp	P.C Board	C1003A502A	[C, A]
Main Amp	P.C Board	C1003A503A	E, S
Main Amp	P. C Board	C1003A504A	V
Tuner	P.C Board	C1002B5210	U
Tuner	P.C Board	C1002B5220	[C, A]
Tuner	P.C Board	C1002B5230	[E, V, S]
Pre Amp	P.C Board	T2051A501A (2ED)	All models
Control	P.C Board	C1003A541A	All models
Function	P.C Board	C1002A5050	U, C, A, E, S
Function	P.C Board	C1002A5060	V
FLD	P.C Board	C1003A541B	All models
Timer Selector	P.C Board	C1003A541C	All models
Lamp	P.C Board	C1003A541E	All models
Speaker	P.C Board	C1003A501D	U
Speaker	P.C Board	C1003A502D	[C, A]
Speaker	P.C Board	C1003A503D	E, S
Speaker	P.C Board	C1003A504D	V
Connector	P.C Board	CMS01D5020	All models
Beat Cancel	P.C Board	C1003A541F	All models
Timer	P.C Board	C1003A541D	All models
Player	P.C Board	C1003A501E	U
Player	P.C Board	C1003A502E	[C, A]
Player	P.C Board	C1003A503E	E, S
Player	P.C Board	C1003A504E	V
Mic	P.C Board	C1003A501C	U
Mic	P.C Board	C1003A502C	C, A
Mic	P.C Board	C1003A503C	E, S
Mic	P.C Board	C1003A504C	V
Head Phone	P.C Board	C1003A501B	U
Head Phone	P.C Board	C1003A502B	$\overline{\mathbb{C}, \mathbf{A}}$
Head Phone	P.C Board	C1003A503B	E, S
Head Phone	P.C Board	C1003A504B	V
Detector	P.C Board	CMS01D5010	All models
Power Supply	P.C Board	C1002B511A	U
Power Supply	P.C Board	C1002B512A	[C, A]
Power Supply	P.C Board	C1002B513A	E, S
Power Supply	P.C Board	C1002B514A	V
Voltage Selector	P.C Board	C1002B511B	Uonly
OSC	P.C Board	C1002D5450	All models

MODEL FD-3L

P.C Board P.	C Board	P.C Board Number	Notes
Main Amp	P.C Board	C1003A503A	E, B
Tuner	P.C Board	C1002B5240	[E, B]
Pre Amp	P.C Board	T2051A501A (2ED)	
Control	P.C Board	C1003A541A	
Function	P.C Board	C1002A5050	E, B
FLD	P.C Board	C1003A541B	
Timer Selector	P.C Board	C1003A541C	·
Lamp	P.C Board	C1003A541E	
Speaker	P.C Board	C1003A503D	E, B
Connector	P.C Board	CMS01D5020	
Beat Cancel	P.C Board	C1003A541F	
Timer	P.C Board	C1003A541D	
Player	P.C Board	C1003A503E	E, B
Mic	P.C.Board	C1003A503C	E, B
Head Phone	P.C Board	C1003A503B	E, B
Detector	P.C Board	CMS01D5010	
Power Supply	P.C Board	C1002B513A	[E, B]
OSC	P.C Board	C1002D5450	

8-2 COMPOSITION OF VARIOUS P.C BOARDS

1) FD-3 TUNER P.C BOARD C1002B5210, C1002B5220 and C1002B5230

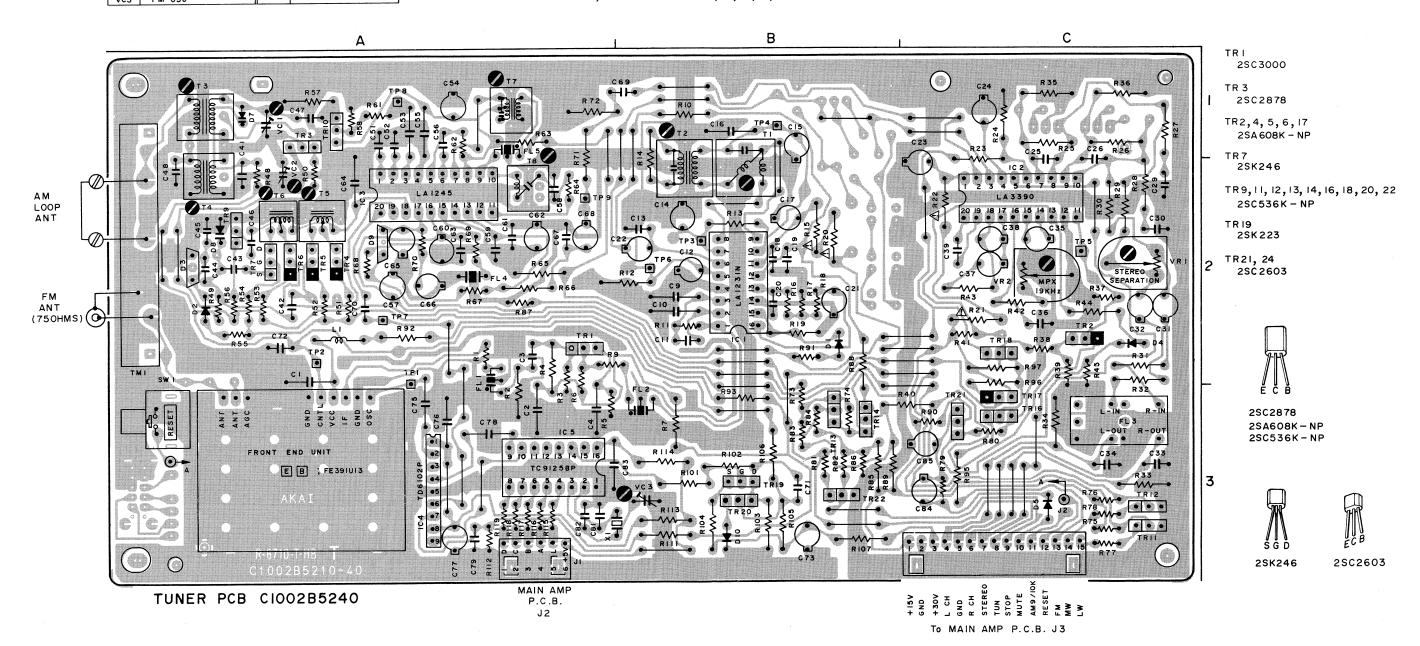


2) FD-3L TUNER P.C BOARD C1002B5240

TI	FM CENTER VOLTAGE	TPI	FM OSC
T2	DISTORTION	TP2	CONTROL VOLTAGE
Т3	MW SENS (LOW)	TP3	FM CENTER
T4	LW SENS (LOW)	TP4	FM CENTER
T5	MW OSC	TP5	19 kHz
Т6	LW OSC	TP6	FM MONO (TO GND)
T7	AM IF	TP7	AM OSC
T8	AM IF	TP8	AM IN
VCI	MW SENS (HIGH)	TP9	AM OUT
VC2	LW SENS (HIGH)		
VC3	FM OSC	1	l '

LOCATION COMPONENTS

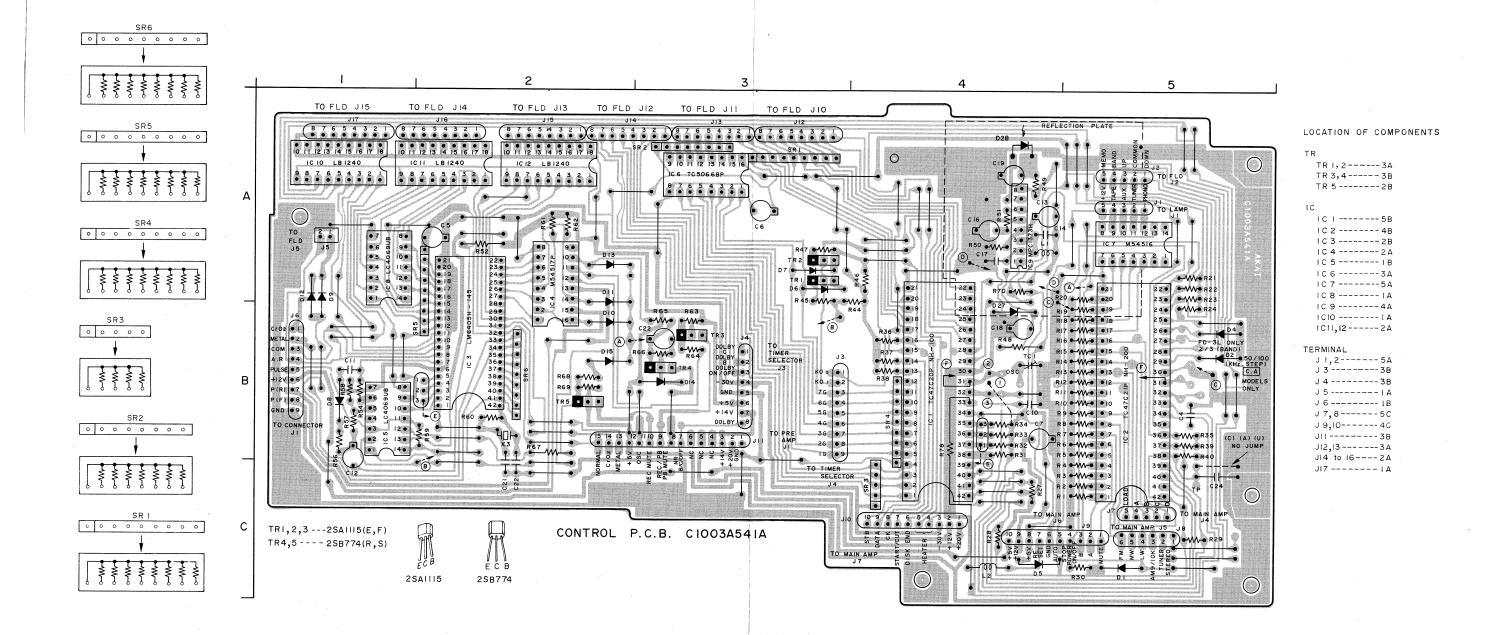
	TR	
10	TR 1, 4 to 7, 9 2A	TERMINAL
IC I 2B	TR 3, 10 IA	JI 3
IC 2 2C	TR 2, 18 2C	J2 3
IC 32A	TR13,14,19,20,223B	
IC4,5 3A	TRII, 12, 16, 17, 21 3C	



WARNING: AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ÂIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

3) CONTROL P.C BOARD C1003A541A



4) PRE AMP P.C BOARD T2051A501A (2ED) LOCATION OF COMPONENTS I C 1C2--C4 IC2b--C2 103--05 1C3b -- C1 Α TR TRI -- A3 TRIb--A3 TR2 -- B3 TR2b--B2 TR3--B3 TR3b--B2 TR4 -- B3 TR4b--B2 TO BEAT CANCEL TR5 - - A3 TR5b--A3 0000000000000 TR8 - - B3 TR8b--B2 8 -> TR9 -- D3 TRI0--E5 TRIOb--D5 TRII--E5 TRIIb -- D5 **←**(7)-> TR 12 -- E4 TRI2b--D4 TR13-- E4 TRI3b--D4 TR14b--D5 TRI4 -- E5 TRI5 -- E5 TRI5b--D5 В TRI66--D5 TRI6 -- E5 TR17--E5 TRI7b--D5 TRI8--F4 TR19--D4 TR20--D4 TR22--E1 TR23 -- EI TR24 -- E I TR25 -- E2 TR26--E2 TR28--DI TR30--DI TR30b--A5 TR31--B5 TR31b -- A5 TR32--B4 TR32b--A4 TR33--B4 TR33b--A4 TR34--B5 С JI --- CI P2 ---E3 P3-1-- B5 P3-2--A5 1) to 2 -- AI 3 to 4--B3 D 2SC1843 2SC2274 2SC2320 2SC2320L 2SD1010 2SAIII5 2SC2603 2SD1012 0 Ε SHELD CASE TO ERASE HEAD

WARNING: AINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ÆIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

PRE AMP PCB T205IA50IA (2ED)

TRII to 17 - - - 28C2320(E,F)

TR 22,23,28,29,30 - -25C26O3(E,F)

TR 18 to 20 -- -- -- 2\$A1115 (E , F)

TR24 -----2SD863 (E,F)

TR31 -----25C1843(E,F)

TR25, 26 ---- 28C2274K(E)

TRI, 32 ---- 28C2320L(P,G)

-28C2320(F,G)

-- 2SD1010(R,S)

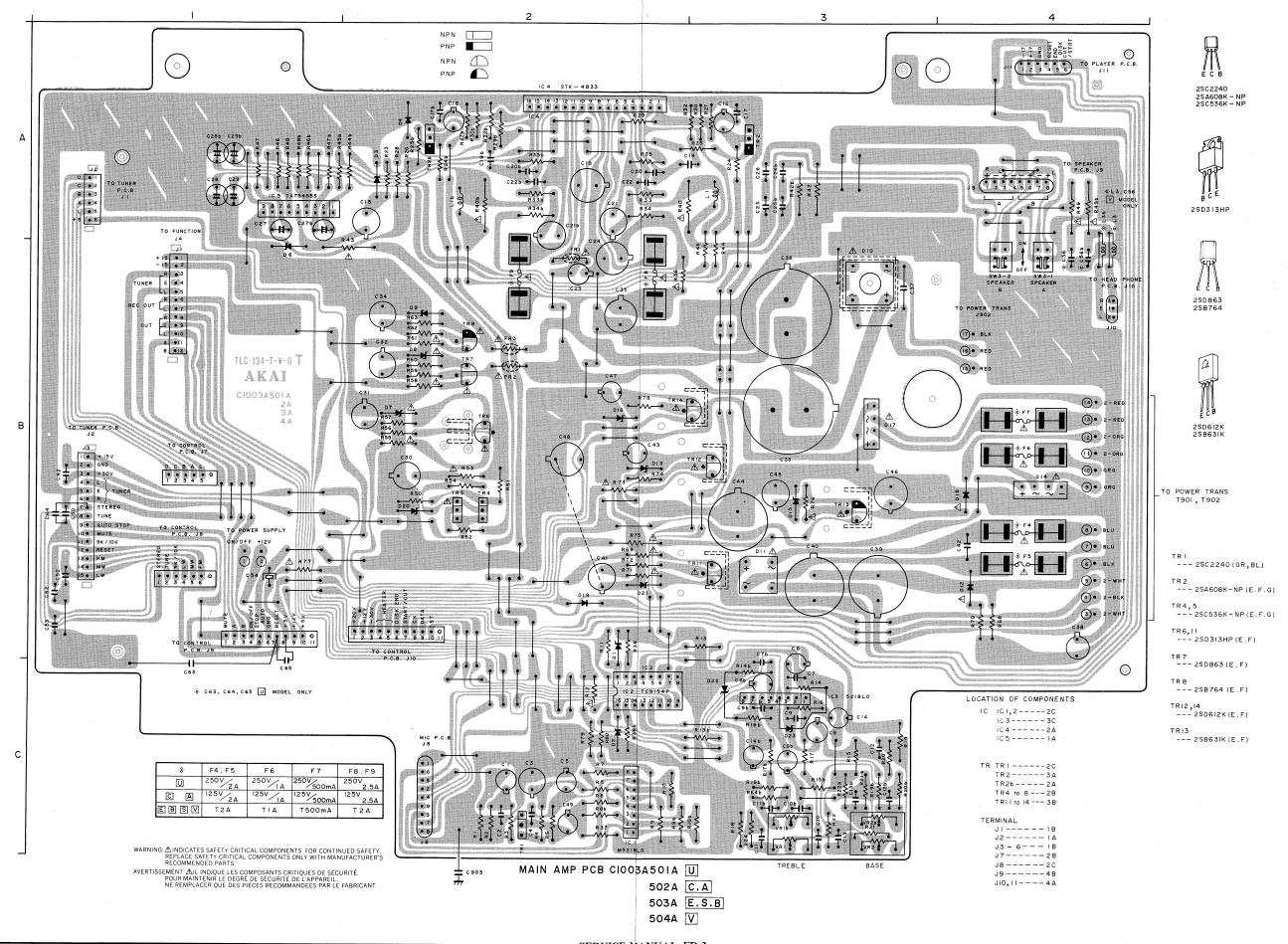
TR2 ---- 2SC2603 (G)

TR3,4,34 -- -- 28C2603(F,G)

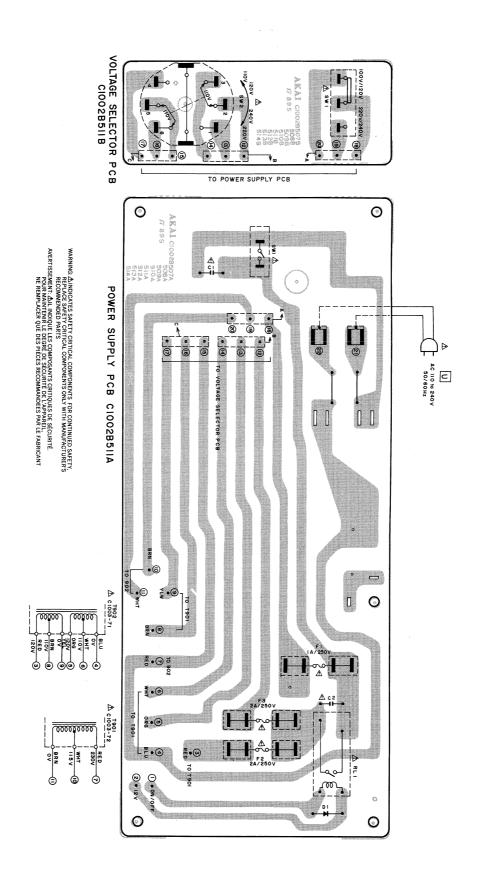
2SD863

2SD894

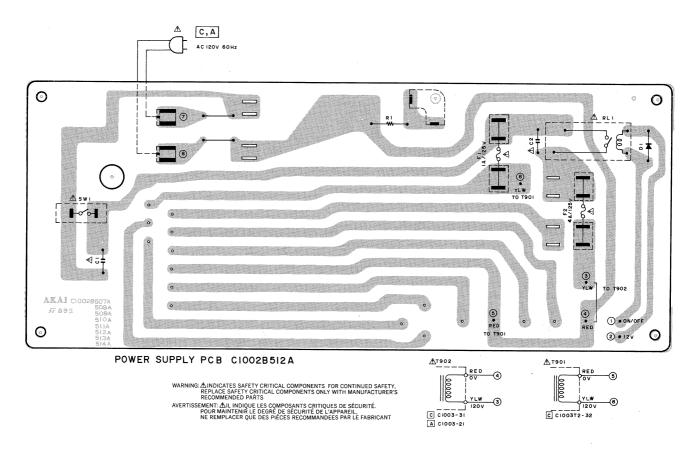
5) MAIN AMP P.C BOARD C1003A501A, C1003A502A, C1003A503A and C1003A504A



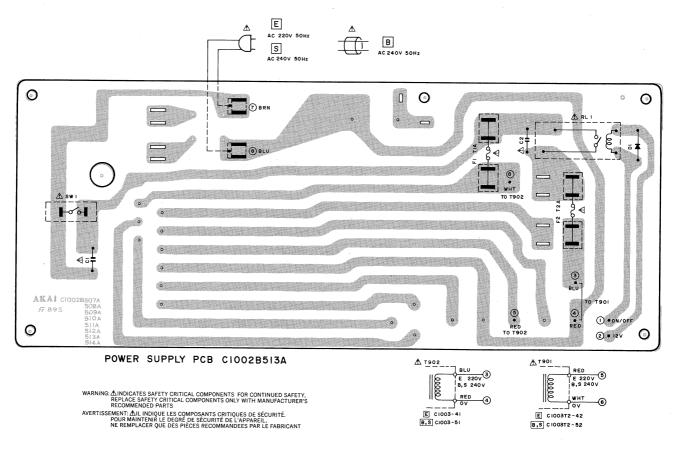
6) POWER SUPPLY P.C BOARD C1002B511A, VOLTAGE SELECTOR P.C BOARD C1002B511B



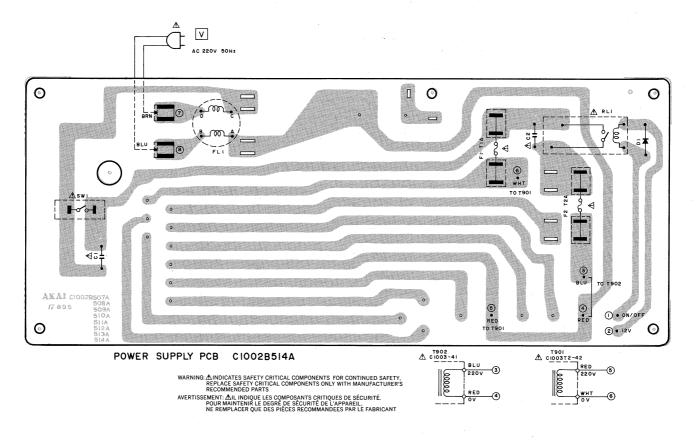
7) POWER SUPPLY P.C BOARD C1002B512A



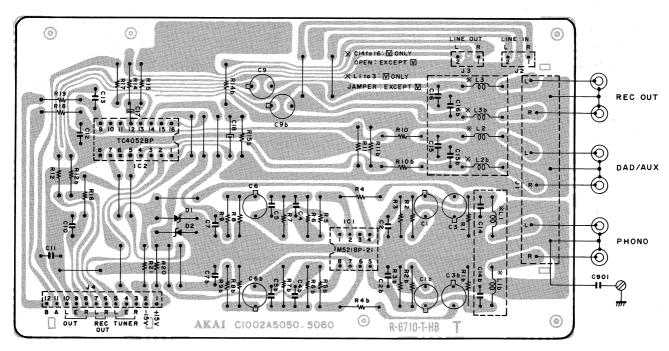
8) POWER SUPPLY P.C BOARD C1002B513A



9) POWER SUPPLY P.C BOARD C1002B514A

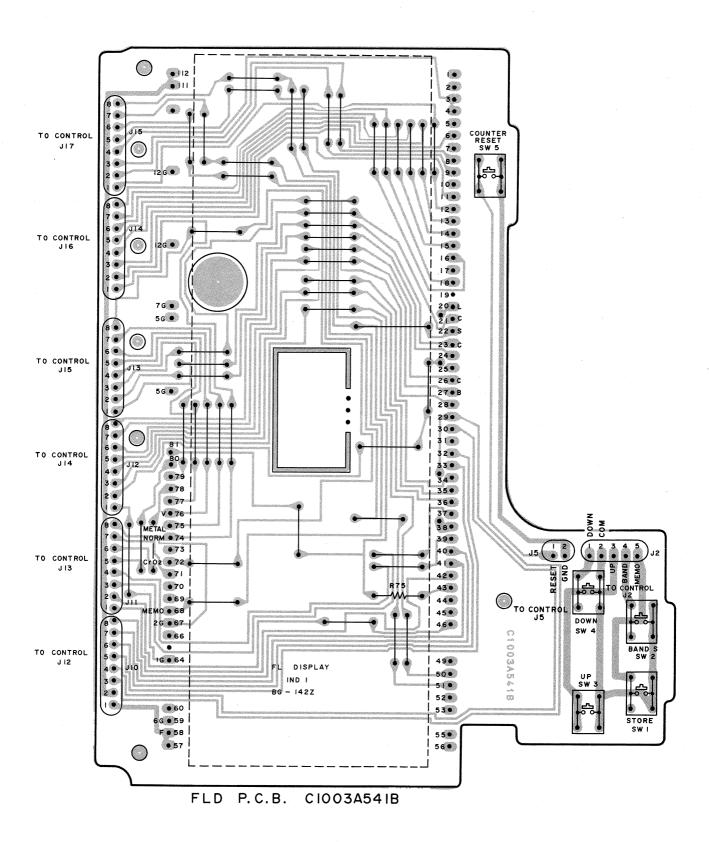


10) FUNCTION P.C BOARD C1002A5050 and C1002A5060

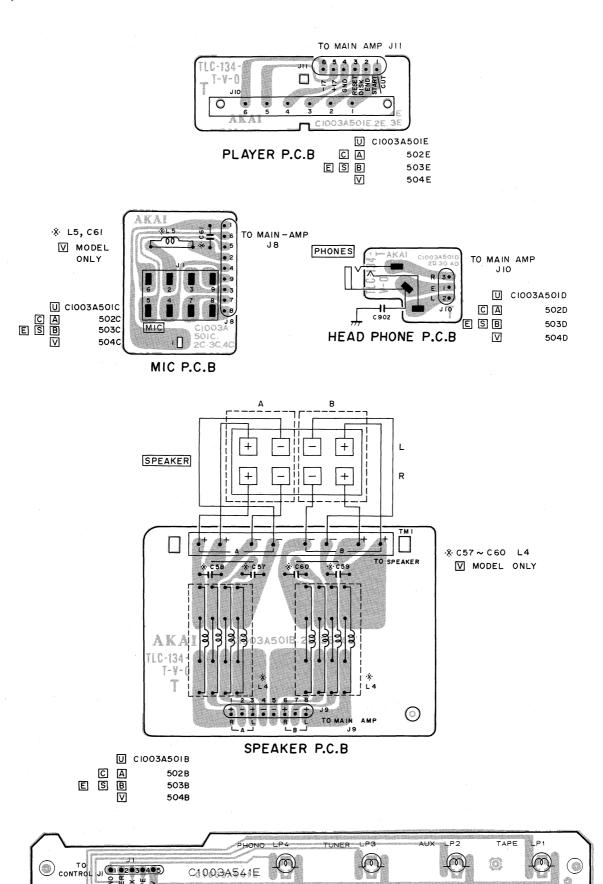


FUNCTION PCB C1002A5050UCAESB C1002A5060V

11) FLD P.C BOARD C1003A541B

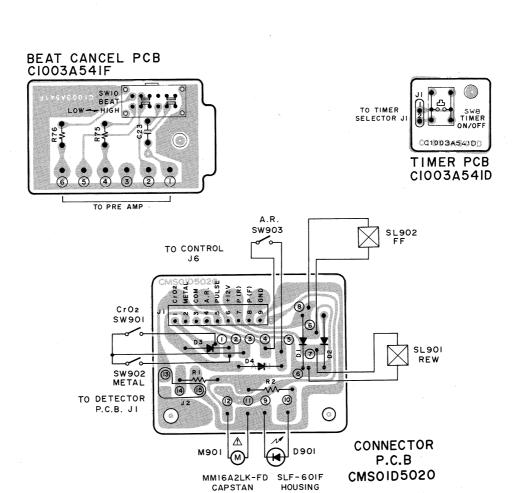


12) OTHER P.C BOARDS



LAMP PCB CIOO3A54IE

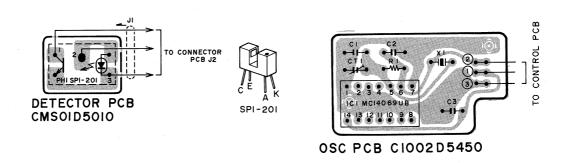
TIMER SELECTOR PCB CIOO3A54IC B/C DOLBY OFF/ON DOLBY 0.9 A TIMER MODE SW9 D21 MIN S N SW7 C1003A54IC CLOCK SELECTOR D22 SW9 D23 MIN S N SW7 SW12 SW12 SW14 SW14 SW17 Y/R 0.0 2.3 3.4 0.5 0.6 70.8 W/B TUNER TAPE W/R 0.2 3.4 0.5 0.6 70.8 W/B TUNER TAPE W/R 0.2 3.4 0.5 0.6 70.8 W/B TUNER TAPE W/R 0.2 3.4 0.5 0.6 70.8 W/B TUNER TAPE W/R 0.2 3.4 0.5 0.6 70.8 W/B TUNER TAPE W/R 0.2 3.4 0.5 0.6 70.8 W/B TUNER TAPE W/R 0.2 3.4 0.5 0.6 70.8 W/B ONLY



WARNING: ÁINDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

MOTOR

AVERTISSEMENT: ÂIL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT



SECTION 2

PARTS LIST

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10.	CHASSIS FRONT BLOCK	71 41
11.	REMOTE CONTROL BLOCK	
12.	ASSEMBLY BLOCK	11
	FRONT PANEL BLOCK	
INDI	EX	47
		7/

Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

ATTENTION

- 1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
- 2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
- 3. Because parts number and parts unit supply in the Preliminary Parts List may be partially changed, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List shows the parts that are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts". Select and order such parts from the "Common List for Service Parts"
- 2. The Recommended Spare Parts shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not be supplied in principle.
- 4. How to read list
 - a) Mechanism Block

b) P.C Board Block

2. HEAD BASE BLOCK

6. SYS. CON. P.C BOARD BLOCK

PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
BH-T2023A320A	HEAD BASE BLOCK GX-F66R	6-1	BA-T2034A070A	PC SYS CON BLK GX-F44R
HP-H2206A010A	HEAD R/P PR4-8FU C	6-IC1	EI-324536 I	C HD14049BP
ZS-477876	PAN20×03STL CMT	6-IC2	EI-336801 I	C MB8841-564M
ZS-536488	BID20×08STL CMT	6-IC3	EI-331661 I	C SN7405N
ZG-402895	CS ANGLE ADJUST SPRING	6-IC4	EI-336725 I	C M54527P
\ T		6-TR1to4	ET-200985	TR 2SC2603 F,G
\ SP (Ser	vice Parts) Classification	6-TR5to28	ET-554657	TR 2SA733A P,Q
	6-D1	ED-318292 I	SILICON H 1S2473T-77 T26	
		6-D2to4	ED-308952 I	GERMA V 1K34A-LR F07
show tl	hat particular part in the Photo or	6-D5to10	ED-318292 I	SILICON H 1S2473T-77 T26
\ Illustra	tion.	6-X1	EI-318384	OSC X'TAL NC-18C
\	4 4 4 4	1	T	3.579545MHZ
individ	ual parts index number in that		SP (Service	e Parts) Classification
figure			milit C	
		-		ence numbers corresponds
			with symb	ool numbers of Schematic
Numbe	r		Diagrams.	
	BH-T2023A320A HP-H2206A010A ZS-477876 ZS-536488 ZG-402895 SP (Sei A small show th Illustra This nu individ figure This nu	BH-T2023A320A HEAD BASE BLOCK GX-F66R HP-H2206A010A HEAD R/P PR4-8FU C ZS-477876 PAN20×03STL CMT ZS-536488 BID20×08STL CMT ZG-402895 CS ANGLE ADJUST SPRING SP (Service Parts) Classification A small "x" indicates the inability to show that particular part in the Photo or Illustration. This number corresponds with the individual parts index number in that	BH-T2023A320A HEAD BASE BLOCK GX-F66R HP-H2206A010A HEAD R/P PR4-8FU C ZS-477876 PAN20×03STL CMT ZS-536488 BID20×08STL CMT ZG-402895 CS ANGLE ADJUST SPRING SP (Service Parts) Classification A small "x" indicates the inability to show that particular part in the Photo or Illustration. This number corresponds with the individual parts index number in that figure This number corresponds with the Figure	BH-T2023A320A HEAD BASE BLOCK GX-F66R HP-H2206A010A HEAD R/P PR4-8FU C ZS-477876 PAN20×03STL CMT ZS-536488 BID20×08STL CMT ZG-402895 CS ANGLE ADJUST SPRING SP (Service Parts) Classification A small "x" indicates the inability to show that particular part in the Photo or Illustration. This number corresponds with the individual parts index number in that figure This number corresponds with the Figure NO. PARTS NO. PARTS NO. PARTS NO. As BA-T2034A070A 6-IC1 EI-324536 II 6-IC2 EI-336801 II 6-IC4 EI-336725 II 6-TR1to4 ET-200985 TI 6-D2to4 ED-318292 II 6-D2to4 ED-318292 II 6-D5to10 ED-318292 II FI-318384 OF THIS NO. SP (Service Parts) No. This referement that figure with symbol s

5. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index.

WARNING

△ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT

△ IL INDIQUE LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT.

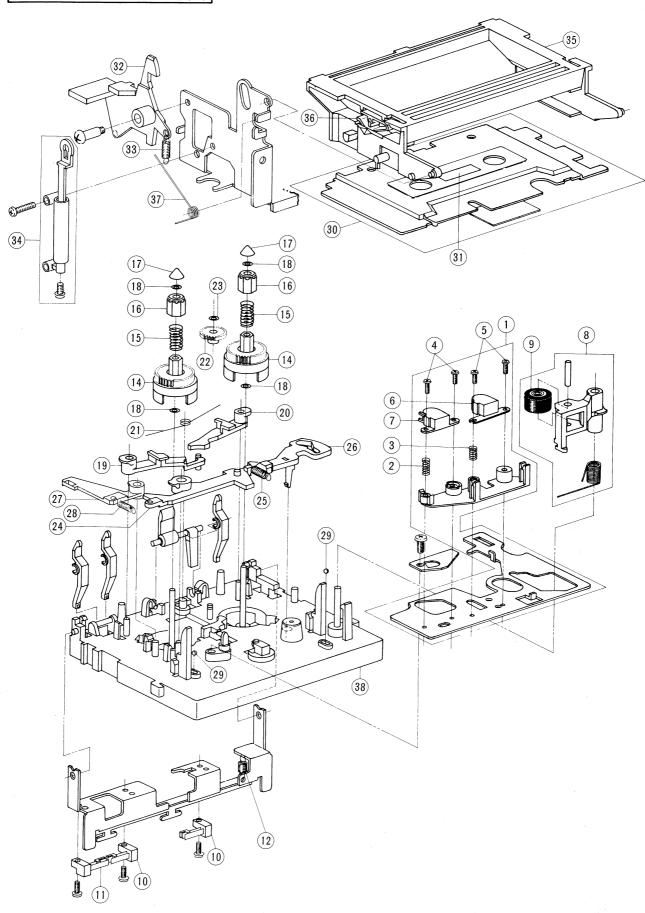
NO.	PARTS NO.	DESCRIPTION
71	EL-347456	PL MINI BASE 14.0V 50MA
72	EM-347469	IND FL BG-142Z DOUBLE
73	EO-337774	COIL OSC 1 0365-056 100.0KHZ
74	EO-202215	COIL OSC 2 7NR-6721Y 100.0μH
75	EO-307786	COIL OSC 2 7NR-6722Y 580.0μH
76	EO-337598	COIL VARI 2 25A-1353-01
77	EO-337599	COIL VARI 2 25A-1354-03
78 70	EP-337067	RELAY LEAD LAB2NS 2NO 18V FILTER CE BFU459C4N 0.459MHZ
79 80	ER-337327 ER-337328	FILTER CE BFU469C4N 0.469MHZ
81	ER-337328 ER-338338	FILTER CE MS3GKY-A 10.700MHZ
82	ER-336804	FILTER CE SFE10.7MA8 10.7MHZ
83	ER-345729	FILTER CE SFE10.7MZ1KA 10.7MHZ
84	ER-343352	FILTER CE SFU459B9 0.459MHZ
85	ER-343353	FILTER CE SFU460B9 0.460MHZ
86	ER-336830	FILTER LC LP BL-34HD
87	ER-341654	FILTER LC LP 42W-1001
88	ER-315407	FILTER CE SFE10.7MKA 10.7MHZ
89 90	ER-328067 ER-343420	R CB H S10 FS RDS 1/4W 331J R COMP EXB-P84104K
91	ER-343420 ER-347438	R COMP EXB-P87104K
92	ER-347437	R COMP EXB-P88 104K
93	ER-347688	R COMP EXB-P88 472K
94	ER-347164	R COMP RKC 1/8 B8 223J
95	ES-344253	SW LEAF MSW-1418J 01-1 NO
96	ES-344257	SW LEAF MSW-1418L 01-1 NO
97	ES-347966	SW PUSH ESB-649 01-2-2 N
98 99	ES-347616	SW PUSH J-K1121#01 2THROW SW ROTARY SRM1017 1-01-07S
100	ES-347436 ES-347617	SW SELECTOR 0240#02 01-4
101	ES-348463	SW SLIDE X012B11Y 01-2
102	ES-344439	SW SLIDE 00420451 2-04-02
103	ES-344439	SW SLIDE 00420451 2-04-02 (U)
104	ES-344445	SW TACT EVQ-QHR12B
105	ES-336780	SW TACT KHH10902
106 107	ET-330717 ET-311977	PHOTO SENSOR NJ L 1644L PHOTO SENSOR SPI-201
107	ET-330588	TR FET 2SK19 O, Y
109	ET-336937	TR FET 2SK223 E, F
110	ET-337604	TR FET 2SK246 Y
111	ET-200558	TR 2SA1115 E,F
112	ET-322778	TR 2SA608K-NP E,F,G
113 114	ET-301165 ET-318237	TR 2SB631K E,F TR 2SB764 E,F
115	ET-318237	TR 2SB774 R,S
116	ET-337258	TR 2SC1843 E,F
117	ET-307195	TR 2SC2240 GR,BL
118	ET-310833	TR 2SC2274K E
119	ET-328578	TR 2SC2320 E,F
120	ET-344275	TR 2SC2320L F,G TR 2SC2603 D,E
121 122	ET-330464 ET-200505	TR 2SC2603 E,F
123	ET-200985	TR 2SC2603 F,G
124	ET-308141	TR 2SC2603 G
125	ET-338410	TR 2SC2878 A,B
126	ET-336935	TR 2SC3000 E,F
127	ET-322775	TR 2SC536K-NP E,F,G TR 2SD1010 R,S
128 129	ET-332421 ET-328437	TR 2SD1010 K,S TR 2SD1012-V F,G
130	ET-452531	TR 2SD313HP E,F
131	ET-310148	TR 2SD612K E,F
132	ET-318239	TR 2SD863 E,F
133	ET-201580	TR 2SD894
134	EV-315416	R S-FIX H D8 3P 103
135	EV-315414 EV-322413	R S-FIX H D8 3P 203 R S-FIX H D8 3P 302
136 137	EV-322413 EV-315413	R S-FIX H D8 3F 302 R S-FIX H D8 3P 503
138	EV-337995	R S-FIX H RVF8P01 3P 103
139	EV-337993	R S-FIX H RVF8P01 3P 203
140	EV-336785	R S-FIX H TM8KV2-1S 3P 0.50W 104
141	EV-347615	VR ROTARY 16P20×3A C104
142	EV-347614	VR ROTARY 16P20×3B C104 HEAD E HJ213270 C
143 144	HE-337047 HP-344252	HEAD E HJ213270 C HEAD R/P HN424977
145	MB-344231	BELT 1.0×D33.3CR HS60
146	MB-344905	BELT 1.2×D38.2 CR HS60
147	MB-344230	BELT 3.0×0.5 T×D61 CRHS60

3)

3) 3)

NO.	PARTS NO.	DESCRIPTION
148 149	MI-B344207 MI-B344215	ARM IDLER FR PART
150	MP-336153	PINCH ROLLER (A)
151 152	MT-344187 MZ-344297	REEL TABLE DUMPER ASSY
153	TA-347458	FRONT END FE391U13 88-108MHZ
154	TA-347459	FRONT END FE393E12 88-108MHZ

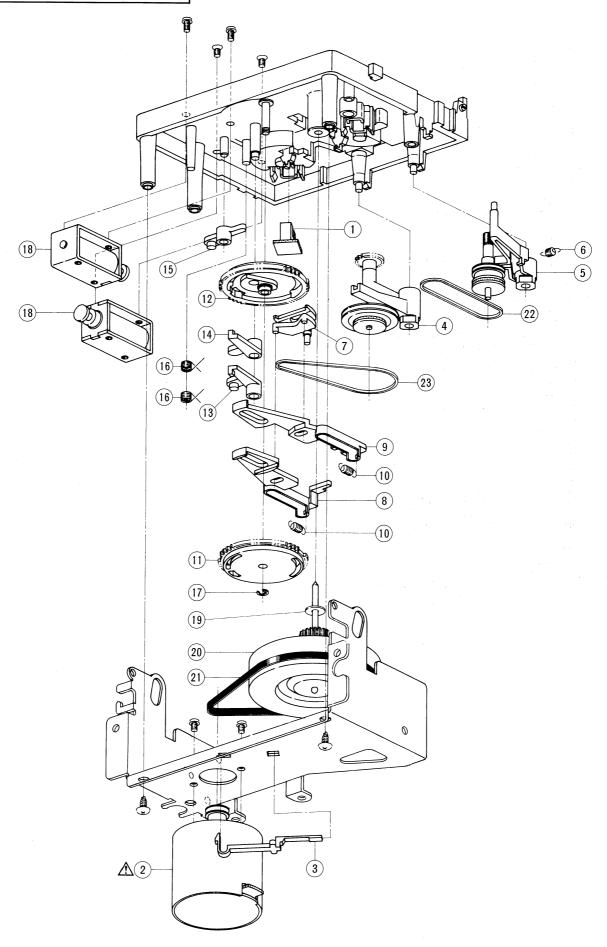
MECHA CMS01 BLOCK (1/2)



1. MECHA CMS01 BLOCK (1/2)

REF.		
NO.	PARTS NO.	DESCRIPTION
	HEAD BLOCK	
1 1	HEAD BLOCK BH-T2051A030C	HEAD BLK FD-3
1-1 1-2	ZG-343104	SP PUSH EH
1-2	ZG-343104 ZG-344900	SP PUSH EH SP PUSH PB (B)
1-3 1-4	ZS-417328	BID23×10STL CMT
1-5	ZS-565211	BID20×10STL CM1 BID20×10STL NI3
1-6	HP-344252	HEAD R/P HN424977
1-0	HE-337047	HEAD E HJ213270 C
1-/	HE-337047	HEAD E HJ 2132 / 0 C
	PINCH ROLLE	R (A) BLOCK
1-8	BL-T2051A040A	PINCH ROLLER (A) BLK HX-M5
1-9	MP-336153	PINCH ROLLER (A)
		ECTION BLOCK
1-10	ES-344253	SW LEAF MSW-1418J 01-1 N0
		(SW901, 902)
1-11	ES-344257	SW LEAF MSW-1418L 01-1 N0
		(SW903)
1-12	ZG-312995	SP T1-4.0/0.4-11.2 T1-108
	MECHA CMS01	RI OCK
1-13x	BB-T2051A020C	MECHA CMS01 BLK FD-3
1-14	MT-344187	REEL TABLE
1-15	ZG-344188	SP PUSH REEL TABLE
1-16	MT-344190	REEL RETAINER
1-17	MT-305793	REEL CAP
1-18	ZW-305546	PW21×040×025PSL
1-19	ML-344191	LEVER BRAKE (L)
1-20	ML-344192	LEVER BRAKE (R)
1-21	ZG-344194	SP TORSION BRAKE
1-22	MZ-344906	GEAR FF (B)
1-23	ZW-343120	PW17×040×025PSL
1-24	ML-344196	LEVER (A)
1-25	ZG-344200	SP PULL HEAD CHASSIS
1-26	ML-344197	LEVER (B)
1-27	ML-344743	LEVER EJECT STOPER (B)
1-28	ZG-312923	SP T1-3.2/0.2-11.2 T1-040
1-29	MV-357208	BALL200STL
1-30	BD-B344206B	LID DECORATION (B) PART
1-31	ED-344244	D LED SLF601C UMBER
1-32	ML-344742	LEVER EJECT (B)
1-33	ZG-312925	SP T1-3.2/0.2-14.0 T1-042
1-34	MZ-344297	DUMPER ASSY
1-35	SE-344239	LID HOLDER
1-36	ZG-336615	SP PLATE CASSETTE HOLDER (B)
1-37	ZG-344240	SP TORSION LID HOLDER
1-38	MZ-B344179	MECHA CHASSIS PART

MECHA CMS01 BLOCK (2/2)



2. MECHA CMS01 BLOCK (2/2)

REF. NO.	PARTS NO.	DESCRIPTION
2-1	ET-311977	PHOTO SENSOR SPI-201
	HOLDER MOT	OR BLOCK
2-2	BM-B314815	▲ MOTOR (PULLEY) PART
2-3	TC-344901	HX-M5 (M901) HOLDER THRUST
	MECHA CMS01	BLOCK
2-4	MI-B344207	ARM IDLER FR PART
2-5	MI-B344215	ARM IDLER TU PART
2-6	ZG-343152	SP PULL TU IDLER
2-7	TC-344219	CAM SHIFTER
2-8	SK-344220	SLIDE (F)
2-9	TC-344221	SLIDE (R)
2-10	ZS-343153	SP PULL SLIDE
2-11	TP-344222	CAM (F)
	TP-344223	CAM (R)
2-13	TC-344224	ARM LOCK (F)
2-14	TC-344225	ARM LOCK (R)
2-15	TC-344226	ARM JOINT
2-16	ZG-344227	SP TORTION PLUNGER
2-17	ZW-340648	RING CS190STL PKR
2-18	EP-344251	SOLENOID 0730PLT 12V
		(SL901, 902)
2-19	ZW-345389	PW26×080×020NYL
2-20	MI-B344228	FLYWHEEL PART
2-21	MB-344230	BELT 3.0×0.5T×D61 CR HS60
2-22	MB-344231	BELT 1.0×D33.3 CR HS60
2-23	MB-344905	BELT 1.2×D38.2 CR HS60

3. MAI	N P.C BOARI	D BLOCK	REF. NO.	PARTS NO.	DESCRIPTION
REF. NO.	PARTS NO.	DESCRIPTION	3-TM1	SPEAKER P.C EJ-343378	BOARD TERMINAL PUSH SQ-2783#90
	BA-C1003A040A	PC MAIN BLK FD-3 (U)	27.4	FO 44404	P 8P
	BA-C1003A040B	PC MAIN BLK FD-3 (C) (C,A)	3-L4	EO-342936	COIL BALUN (V)
	BA-C1003A040C	PC MAIN BLK FD-3 (E) (E,S)		MIC P.C BOAL	αn
3-1 V	BA-C1003A040D	PC MAIN BLK FD-3 (V)	3-J8	EJ-347618	PHONE JACK JL3A 9P
	MAIN AMP P.O	CBOARD	3-L5	EO-338420	COIL FIX 2 FL12R202E
3-IC1	EI-337228	IC M5218L0			2.00MH (V)
3-IC2	EI-343371	IC TC9154P			
3-IC3	EI-337228	IC M5218L0		HEADPHONE	
3-IC4	EI-346122	△ IC STK4833	3-J9	EJ-347619	PHONE J 3P HLJ0606-20 6.3
3-IC5	EI-322599	IC TA75458S		PLAYER P.C	DOADD
3-TR1 3-TR2	ET-307195 ET-322778	TR 2SC2240 GR,BL TR 2SA608K-NP E,F,G	3-J10	EJ-347474	SOCKET POWER M1674 6P
3-TR2	ET-322775	TR 2SC536K-NP E,F,G			SOCIET TOWER MIOTA OF
3-TR5	ET-322775	△ TR 2SC5 36K-NP E,F,G			
3-TR6	ET-452531	△ TR 2SD313HP E,F	3-F4U	EF-306950	⚠ FUSE TSC A 250V 2.00A (U)
3-TR7	ET-318239	△ TR 2SD863 E,F	3-F4C	EF-306954	△ FUSE TSC 125V 2.00A (C,A)
3-TR8	ET-318237	⚠ TR 2SB764 E,F	3-F4E	EF-601301	⚠ FUSE SEMKO T 250V 2.00A
3-TR11 3-TR12	ET-452531	⚠ TR 2SD313HP E,F	3-F5U	EF-306950	(E,B,S,V) △ FUSE TSC A 250V 2.00A (U)
3-1 R12 3-TR13	ET-310148 ET-301165	△ TR 2SD612K E,F △ TR 2SB631K E,F	3-F5C	EF-306954	△ FUSE TSC 125V 2.00A (C,A)
3-TR13	ET-301103	△ TR 2SD631K E,F	3-F5E	EF-601301	△ FUSE SEMKO T 250V 2.00A
3-D1,2	ED-343410	D ZENER H HZ6L A1			(E,B,S,V)
3-D3,4	ED-301911	D SILICON H DS448	3-F6U	EF-309387	⚠ FUSE TSC A 250V 1.00A (U)
3-D6	ED-345149	D ZENER H HZ15L 3	3-F6C	EF-310229	△ FUSE STS 125V 1.00A (C,A)
3-D7	ED-346574	△ D ZENER H HZ22L 2	3-F6E	EF-623103	⚠ FUSE SEMKO T 250V 1.00A
3-D8,9	ED-345149	△ D ZENER H HZ15L 3	3-F7U	EF-327103	(E,B,S,V)
3-D10	ED-200213	△ D SILICON DBA40C-K15	3-F7C	EF-327103 EF-309390	△ FUSE TSC A 250V 0.50A (U) △ FUSE TSC 125V 0.50A (C,A)
3-D11	ED-348200	200/2.6A ⚠ D SILICON DBA20C-K15	3-F7E	EF-593706	△ FUSE SEMKO T 250V 0.50A
0 211	22 0.0200	200/20A			(E,B,S,V)
3-D12	ED-301911	△ D SILICON H DS448	3-F8U	EF-306951	△ FUSE TSC A 250V 2.50A (U)
3-D13	ED-307690	D ZENER H HZ7L A1	3-F8C	EF-306956	△ FUSE TSC 125V 2.50A (C,A)
3-D14	ED-330320	△ D SILICON DBA10C 200/1.0A	3-F8E	EF-601301	△ FUSE SEMKO T250V 2.00A
3-D15	ED-346583	D ZENER H HZ30L 3	3-F9U	EF-306951	(E,B,S,V) △ FUSE TSC A 250V 2.50A (U)
3-D16 3-D17	ED-307690 ED-330320	D ZENER H HZ7L A1 △ D SILICON DBA10C 200/1.0A	3-F9C	EF-306956	△ FUSE TSC 125V 2.50A (C,A)
3-D17 3-D18	ED-330320 ED-224526	△ D SILICON 10D1 100/1.0A	3-F9E	EF-601301	△ FUSE SEMKO T 250V 2.00A
3-D19	ED-347963	D ZENER H 1Z6.2			(E,B,S,V)
3-D20	ED-346583	D ZENER H HZ30L 3			
3-D21	ED-345149	D ZENER H HZ15L 3			
3-SW1	ES-347616	SW PUSH J-K1121#01 2THROW			•
3-VR1 3-VR2	EV-347614 EV-347615	VR ROTARY 16P20×3B C104 VR ROTARY 16P20×3A C104			
3-V K2	EO-337880	COIL FIX 2 202AK-018 2.20µH			
3-L3	EO-336934	COIL FIX 1 LAL03KH			
3-FR1	ER-341920	2.20μH (V) Δ R FUSE ERQ14AJ S10 1/4W			
3-FR2,3	ER-328278	101J ⚠ R FUSE ERD2FC 1/4W			
•		10R0G			
3-R11,12	ER-323074	⚠ R CB H S10 FS RDS 1/4W 102J			
3-R36	ER-200940	⚠ R CB H S10 FS RDS 1/4W 561J			
3-R40	ER-311685	⚠ R CB H S15 FS RDS 1/2W 4R7J			
3-R43	ER-321153	△ R OMF H S15 FS 1W 102J			
3-R49	ER-308028	A R OMF H S15 FS 1W 181J			
3-R52	ER-324934	△ R CB H S10 FS RDS 1/4W 220J			
3-R55	ER-322787	△ R CB H S10 FS RDS 1/4W			
3-R71	ER-328067	100J ⚠ R CB H S10 FS RDS 1/4W			
3-R73	ER-322787	331J △ R CB H S10 FS RDS 1/4W			
3-R75	ER-333625	100J ⚠ R CB H S15 FS RDS 1/2W			
3-R76	ER-333429	180J R CB H S10 FS RDS 1/4W 682J			
3-R76 3-R77	ER-333429 ER-322787	R CB H S10 FS RDS 1/4W 682J R CB H S10 FS RDS 1/4W 100J			
3-C29	EC-343855	C EC V F05 NP SM R22M 50.0DC			
3-C33	EC-345605	C EC V S10 682M 45.0DC			
3-C36	EC-345605	C EC V S10 682M 45.0DC			
3-C37	EC-326583	C MMY V CUT CF921 473K			
		400DC			

4. PRE AMP P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
4-1 BA	A-C1003A050A	PC PRE AMP BLK FD-3
4-IC2	EI-344291	IC NE654
4-IC3	EI-337835	IC NE652
4-TR1	ET-344275	TR 2SC2320L F,G
4-TR2	ET-308141	TR 2SC2603 G
4-TR3	ET-200985	TR 2SC2603 F,G
4-TR4	ET-200505	TR 2SC2603 E,F
4-TR5	ET-328578	TR 2SC2320 E,F
4-TR8	ET-332421	TR 2SD1010 R,S
4-TR9	ET-201580	TR 2SD894
4-TR10	ET-328437	TR 2SD1012-V F,G
4-TR11to17		TR 2SC2320 E,F
4-TR18to20		TR 2SA1115 E,F
4-TR22,23	ET-200505	TR 2SC2603 E,F
4-TR24	ET-318239	TR 2SD863 E,F
4-TR25,26	ET-310833	TR 2SC2274K E
4-TR28to30		TR 2SC2603 E.F
4-TR31	ET-337258	TR 2SC1843 E.F
4-TR32	ET-344275	TR 2SC2320L F,G
4-TR33	ET-328578	TR 2SC2320 E,F
4-TR34	ET-200985	TR 2SC2603 F,G
4-D1	ED-337575	D SILICON H GMA-01-4-BT T26
4-D2to4	ED-301911	D SILICON H DS448
4-D6	ED-346286	D ZENER V HZ3C-3S1
4-D8	ED-301911	D SILICON H DS448
4-D9	ED-308952	D GERMA V 1K34A-LR F07
4-D13	ED-337575	D SILICON H GMA-01-4-BT T26
4-VR1	EV-315414	R S-FIX H D8 3P 203
4-VR2	EV-322413	R S-FIX H D8 3P 302
4-VR3	EV-315416	R S-FIX H D8 3P 103
4-VR4	EV-336785	R S-FIX H TM8KV2-1S 3P
		0.50W 104
4-V R5	EV-315413	R S-FIX H D8 3P 503
4-RL1	EP-337067	RELAY LEAD LAB2NS 2NO
		18V
4-L2	EO-347162	COIL FIX 1 L-8 10MHZ J
4-FR1,2	ER-307565	⚠ R FUSE ERD2FC S10 1/4W
4-C13	EC-314992	6R8J C STY V F05 CQF09 681J 50DC
4-C15	EC-314992 EC-306022	C STY V F05 CQ09S 821J 50DC
4-C58	EC-300022 EC-307725	C PP V ECQ-P 103J 100DC
4-C59	EC-307723 EC-337777	C PP V F10 ECQ-F 272J 630DC
4-C61	EC-337777 EC-307494	C STY V F05 CQ09S 331J 50DC
4-C63	EC-307494 EC-302265	C STY V F05 CQ09S 3311 30DC
4-C67	EC-302265 EC-314990	•
4-C67 4-T1		C STY V SNP CQFS 101J 50DC
4-11 4-FL1	EO-337774 ER-337695	COIL OSC 1 0365-056 100.0KHZ
4-FL1 4-FL3	EO-336738	FILTER DB 201AK-005 100KHZ
4-L L3	EO-330/30	COIL TUN 1 102AK-004
4-FL5	EO-315758	19.80KHZ COIL TUN 1 100S-431
. 1 100	20-010/00	100.00KHZ
		100.00K112

5. CONTROL P.C BOARD BLOCK

REF.	PARTS NO.	DESCRIPTION
NO.		
5-1 U	BA-C1003A070A	PC CONTROL BLK FD-3 (U)
5-1C	BA-C1003A070B	PC CONTROL BLK FD-3 (C)
		(C,A)
5-1E	BA-C1003A070C	PC CONTROL BLK FD-3 (E)
5 1 I E	DA (1002A070D	(E,S,V)
5-1 LE 5-1 LB	BA-C1003A070D BA-C1003A070E	PC CONTROL BLK FD-3L (E) PC CONTROL BLK FD-3L (B)
J-1 LD	DA-C1003A070E	TO CONTROL BER FD-3E (B)
	CONTROL P.C	BOARD
5-IC1	EI-347454	IC TC47C21P MH-100
5-IC1N	EI-346965	IC TC47C21P NH-101
5-IC2	EI-347455	IC TC47C20P NH-200
5-IC2N	EI-346966	IC TC47C20P NH-201
5-IC3	EI-344277	IC LM6405H-145
5-IC4	EI-332287	IC M54517P
5-IC5	EI-338171	IC LC4069UB
5-IC6	EI-315379	IC TC5066BP
5-IC7	EI-332258	IC M54516
5-IC8	EI-338171	IC LC4069UB
5-IC9	EI-330226	IC UPC1373H
5-IC10to		IC LB1240
5-TR1to		TR 2SA1115 E,F
5-TR4,5	ET-338081	TR 2SB774 R,S
5-D1	ED-301911	D SILICON H DS448
5-D2,4 5-D5	ED-200469	D SILICON H DS448 FA5 F10
5-D5 5-D6to15	ED-224526 ED-301911	D SILICON 10D1 100/1.0A
5-D01013	ED-3474149	D SILICON H DS448 D ZENER H 05Z8.2 Y
5-D27	ET-330717	PHOTO SENSOR NJL1644L
5-D26 5-L1	EO-330717	COIL FIX1 187LY-103K
5 DI	EO 330717	10.00MH K
5-L2	EO-336934	COIL FIX 1 LAL03KH 2.20UH M
5-X1,2	EI-347434	OSC X'TAL HC-18/U
,		4.194304MHZ
5-X3	EI-337017	OSC CE CSB800A 0.800000MHZ
5-R48	ER-328067	△ R CB H S10 FS RDS 1/4W
		331J
5-SR1	ER-347437	R COMP EXB-P88 104K
5-SR2	ER-347438	R COMP EXB-P87104K
5-SR3	ER-343420	R COMP EXB-P84104K
5-SR4	ER-347688	R COMP EXB-P88 472K
5-SR5	ER-347164	R COMP RKC 1/8 B8 223J
5-SR6	ER-347164	R COMP RKC 1/8 B8 223J
5-TC1	EC-330692	C S-FIX H TZ03R200E 4.2-20
	ELD D C DO AD	n.
E CW1+oE	FLD P.C BOAR	
5-SW1to5 5-IND1	ES-336780 EM-347469	SW TACT KHH10902
2-11/1/1	EM-34/409	IND FL BG-142Z DOUBLE
	TIMER SELECT	TOR P.C BOARD
5-SW6,7	ES-336780	SW TACT KHH10902
5-SW9	ES-347436	SW ROTARY SRM1017 1-01-07S
5-SW11,1		SW PUSH ESB-649 01-2-2 N
5-D23	ED-200469	D SILICON H DS448 FA5 F10
		(C,B)
	TIMER P.C BOA	ARD
5-SW8	ES-336780	SW TACT KHH10902

LAMP P.C BOARD

5-LP1to4 EL-347456 PL MINI BASE 14.0V 50MA

BEAT CANCEL P.C BOARD

SW SLIDE 00420451 2-04-02 C STY V S05 CQFS 471J 250DC 5-SW10 ES-344439 5-C23 EC-346689

6. TUNER P.C BOARD BLOCK

		22001
REF. NO.	PARTS NO.	DESCRIPTION
6-1 U	BA-C1002A090A	PC TUNER BLK FD-7 (U)
6-1 C	BA-C1002A090B	PC TUNER BLK FD-7 (C) (C,A)
6-1E	BA-C1002A090C	PC TUNER BLK FD-7 (E)
6-1 V	BA-C1002A090D	PC TUNER BLK FD-7 (V)
6-1S	BA-C1002A090E	PC TUNER BLK FD-7 (S)
6-1 LE	BA-C1002A090E BA-C1002A090F	PC TUNER BLK FD-7 (S) PC TUNER BLK FD-7L (E)
6-1 LB	BA-C1002A090F	
6-IC1	EI-322248	PC TUNER BLK FD-7L (B)
6-IC2		IC LA1231N
6-IC3	EI-343349	IC LA3390
6-IC3 6-IC4	EI-202218	IC LA1245
	EI-315381	IC TD6102P
6-IC5	EI-336717	IC TC9125BP
6-TR1	ET-336935	TR 2SC3000 E,F
6-TR2	ET-332311	TR 2SA608SP D,E,F,G
6-TR3	ET-338410	TR 2SC2878 A,B (L ONLY)
6-TR4to6	ET-322778	TR 2SA608K-NP E,F,G(L ONLY)
6-TR7	ET-337604	TR FET 2SK246 Y (L ONLY)
6-TR9	ET-322775	TR 2SC536K-NP E,F,G(L ONLY)
6-TR10	ET-330588	TR FET 2SK19 O,Y (L ONLY)
6-TR11,12		TR 2SC536K-NP E,F,G(L ONLY)
6-TR13,14	FT-246846	TR 2SC5 36NP E,F,G,H
6-TR16	ET-246846	TR 2SC5 36NP E,F,G,H
6-TR17	ET-322778	TR 2SA608K-NP E,F,G
6-TR18	ET-246846	TR 2SC536NP E,F,G,H
6-TR19	ET-336937	TR FET 2SK223 E,F
6-TR20	ET-246846	TR 2SC5 36NP E,F,G,H
6-TR21	ET-330464	TR 2SC2603 D,E
6-TR22	ET-246846	TR 2SC536NP E,F,G,H
6-TR24	ET-200505	TR 2SC2603 E,F (V ONLY)
6-D1	ED-337575	D SILICON H GMA-01-4-BT T26
6-D2	ED-344280	D SILICON H GMA-01-FY2F05
		(L ONLY)
6-D3	ED-348205	D SILICON V MC931 DOUBLE
		(L ONLY)
6-D4,5	ED-337575	D SILICON H GMA-01-4-BT T26
6-D7,8	ED-337605	D VARACTOR SVC333 (A)
, -	22 00,000	DOUBLE
6-D9	ED-348205	D SILICON V MC931 DOUBLE
6-D10	ED-337575	D SILICON H GMA-01-4-BT T26
6-SW1	ES-344445	SW TACT EVQ-QHR12B
6-SW2	ES-344439	SW SLIDE 00420451 2-04-02 (U)
6-VR1	EV-337993	R S-FIX H RVF8P01 3P 203
6-VR2	EV-337995	R S-FIX H RVF8P01 3P 103
6-V K2	EO-345904	
6-T1	EO-345904 EO-336878	COIL FIX 1 LAL03KH 1.50µH M
6-T2	EO-336878 EO-336879	COIL DET 2 78-1049
		COIL DET 2 78-1050
6-T3	EO-337598	COIL VARI 2 25A-1353-01
6-T4	EO-337599	COIL VARI 2 25A-1354-03
6 T.E	FO 202245	(L ONLY)
6-T5	EO-202215	COIL OSC 2 7NR-6721Y 100.0μH
6-T6	EO-307786	COIL OSC 2 7NR-6722Y 580.0μH
. m=	TO 2422	(L ONLY)
6-T7	EO-343351	COIL IFT PEGK00008B-01
(TO	EO aossa	455.0KHz
6-T8	EO-202216	COIL IFT 7MC-6733C 460.0KHZ
6-FL1U	ER-315407	FILTER CE SFE10.7MMKA
		10.7MHZ (EXCEPT L,E)
6-FL1L	ER-345729	FILTER CE SFE10.7MZ1KA
		10.7MHZ (L,E ONLY)
6-FL2U	ER-336804	FILTER CE SFE10.7MA8
		10.7MHZ (EXCEPT V,E)
6-FL2L	ER-338338	FILTER CE MS3GKY-A
		10.700MHZ (V,E)
6-FL3	ER-341654	FILTER LC LP 42W-1001
6-FL4U	ER-343352	FILTER CE SFU459B9
		0.459MHZ (EXCEPT C)
6-FL4C	ER-343353	FILTER CE SFU460B9
		0.460MHZ (C)
6-FL5 U	ER-337327	FILTER CE BFU459C4N
		0.459MHZ (EXCEPT C)
6-FL5C	ER-337328	FILTER CE BFU460C4N
		0.46MHZ (C)
6-FL6V	ER-336830	FILTER LC LP BL-34HD (V)
6-X1	EI-327074	OSC X'TAL HC-18/U
		9.000000MHZ

REF. NO.	PARTS NO.	DESCRIPTION
6-VC1to3	EC-330692	C S-FIX H TZ03R200E 4.2-20
6-R7	ER-324184	R CB H S10 FS RDS 1/4W 121J
6-R15	ER-324337	R CB H S10 FS RDS 1/4W 560J
6-R20to22	ER-324337	R CB H S10 FS RDS 1/4W 560J
6-R63	ER-324185	R CB H S10 FS RDS 1/4W 221J
6-R65	ER-324184	R CB H S10 FS RDS 1/4W 121J
6-R92,93	ER-324480	R CB H S10 FS RDS 1/4W 470J
6-R107	ER-324480	R CB H S10 FS RDS 1/4W 470J
6-R113	ER-324934	R CB H S10 FS RDS 1/4W 220J
6-R114	ER-324184	R CB H S10 FS RDS 1/4W 121J
6-C25 U	EC-344486	C PP V F05 PP 391J 50DC
		(EXCEPT C)
6-C25C	EC-344478	C PP V F05 PP 561J 50DC (C)
6-C26U	EC-344486	C PP V F05 PP 391J 50DC
1		(EXCEPT C)
6-C26C	EC-344478	C PP V F05 PP 561J 50DC (C)
6-C27,28	EC-344482	C PP V F05 PP 161J 50DC (U)
6-C36	EC-344483	C PP V F05 PP 102J 50DC
6-C42	EC-344481	C PP V F05 PP 4700G 50DC
6-C43	EC-344482	C PP V F05 PP 161J 50DC
		(L ONLY)
6-2	TA-347458	FRONT END FE391U13
		88-108MHZ (EXCEPT V)
6-2 V	TA-347459	FRONT END FE393E12
		88-108MHZ (V)
6-TM1	EJ-344423	TERMINAL W/SCREW
		YKD31-0133 P 2P

7. FUNCTION P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
7-IC1	EI-344764	IC M5218P-21
7-IC2	EI-332259	IC TC4052BP
7-D1,2	ED-307690	D ZENER H HZ7L A1
7-J 1	EJ-336904	PIN J AJC-036-ACB P 6P
7-L1	EO-338420	COIL FIX 2 FL12R202E
		2.00MH (V)
7-L2,3	EO-336934	COIL FIX 1 LAL03KH
		2.20UH M (V)
7-R20,21	ER-323074	△ R CB H S10 FS RDS 1/4W
		, 102J
7-1	EJ-329610	TERMINAL W/SCREW UB-0067
		L 1P

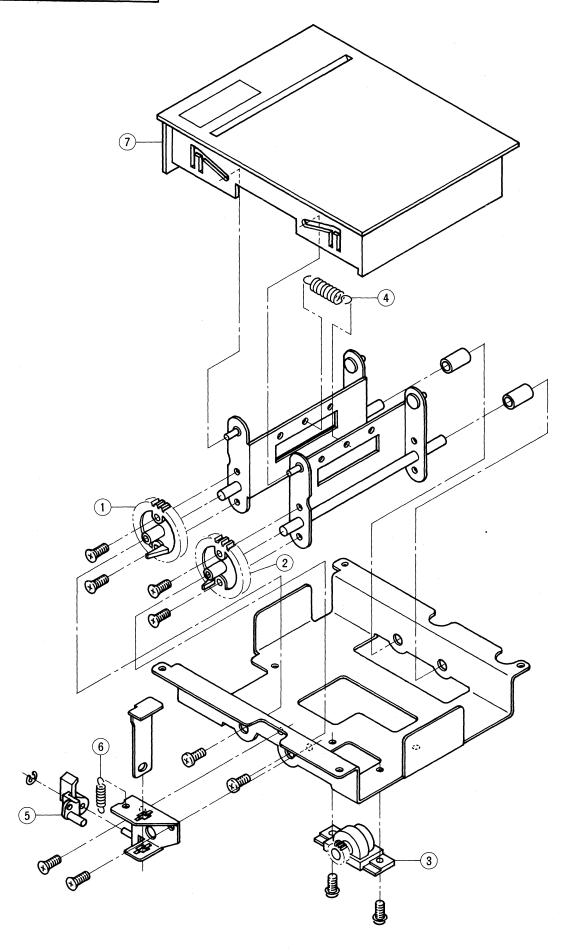
8. POWER SUPPLY P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
NO.		
	POWER SUPPL	Y P.C BOARD
8-D1	ED-2000469	D SILICON DS448 FA5 F10
8-SW1A	ES-337902	SW PUSH SDLD1P 01-1
8-RL1A	EP-347611	▲ RELAY POWER
		G2R-1112PFD-V 1NO 12V
8-FL1	EO-338409	COIL LF FKOB160MH02
		250µH (V ONLY)
8-C1U	EC-320548	△ C CE V F 103Z 250AC (U)
8-C1C	EC-314688	△ C CE V FZ 103P 125AC (C,A)
8-C1E	EC-338577	△ C CE V F 472M 400AC(E,V,S)
8-C2U	EC-320548	△ C CE V F 103Z 250AC (U)
8-C2C	EC-314688	△ C CE V FZ 103P 125AC (C,A)
8-C2E	EC-338577	\triangle C CE V F 472M 400AC(E,V,S)
		* * * *
	VOLTAGE SEL	ECTOR P.C BOARD
8-SW1B	VOLTAGE SEL ES-348463	ECTOR P.C BOARD SW SLIDE X012B11Y 01-2
8-SW1 B		
8-SW1B 8-SW2B		SW SLIDE X012B11Y 01-2
	ES-348463	SW SLIDE X012B11Y 01-2 (U ONLY)
	ES-348463	SW SLIDE X012B11Y 01-2 (U ONLY) △ SW SELECTOR 0240#02 01-4
	ES-348463	SW SLIDE X012B11Y 01-2 (U ONLY) △ SW SELECTOR 0240#02 01-4
	ES-348463	SW SLIDE X012B11Y 01-2 (U ONLY) △ SW SELECTOR 0240#02 01-4
8-SW2B	ES-348463 ES-347617	SW SLIDE X012B11Y 01-2 (U ONLY)
8-SW2B 8-F1U	ES-348463 ES-347617 EF-309387	SW SLIDE X012B11Y 01-2 (U ONLY) \$\Delta\$ SW SELECTOR 0240#02 01-4 (U ONLY) \$\Delta\$ FUSE TSC A 250V 1.00A (U)
8-SW2B 8-F1U 8-F1C	ES-348463 ES-347617 EF-309387 EF-310229	SW SLIDE X012B11Y 01-2 (U ONLY) \$\Delta\$ SW SELECTOR 0240#02 01-4 (U ONLY) \$\Delta\$ FUSE TSC A 250V 1.00A (U) \$\Delta\$ FUSE TSC 125V 1.00A (C,A)
8-SW2B 8-F1U 8-F1C	ES-348463 ES-347617 EF-309387 EF-310229	SW SLIDE X012B11Y 01-2 (U ONLY) Δ SW SELECTOR 0240#02 01-4 (U ONLY) Δ FUSE TSC A 250V 1.00A (U) Δ FUSE TSC 125V 1.00A (C,A) Δ FUSE SEMKO T 250V 1.00A
8-SW2B 8-F1U 8-F1C 8-F1E	ES-348463 ES-347617 EF-309387 EF-310229 EF-623103	SW SLIDE X012B11Y 01-2 (U ONLY) Δ SW SELECTOR 0240#02 01-4 (U ONLY) Δ FUSE TSC A 250V 1.00A (U) Δ FUSE TSC 125V 1.00A (C,A) Δ FUSE SEMKO T 250V 1.00A (E,B,S,V) Δ FUSE TSC A 250V 2.00A (U)
8-SW2B 8-F1U 8-F1C 8-F1E 8-F2U	ES-348463 ES-347617 EF-309387 EF-310229 EF-623103 EF-306950	SW SLIDE X012B11Y 01-2 (U ONLY) △ SW SELECTOR 0240#02 01-4 (U ONLY) △ FUSE TSC A 250V 1.00A (U) △ FUSE TSC 125V 1.00A (C,A) △ FUSE SEMKO T 250V 1.00A (E,B,S,V)
8-SW2B 8-F1U 8-F1C 8-F1E 8-F2U 8-F2C	ES-348463 ES-347617 EF-309387 EF-310229 EF-623103 EF-306950 EF-306957	SW SLIDE X012B11Y 01-2 (U ONLY) Δ SW SELECTOR 0240#02 01-4 (U ONLY) Δ FUSE TSC A 250V 1.00A (U) Δ FUSE TSC 125V 1.00A (C,A) Δ FUSE SEMKO T 250V 1.00A (E,B,S,V) Δ FUSE TSC A 250V 2.00A (U) Δ FUSE TSC A 250V 2.00A (C,A)
8-SW2B 8-F1U 8-F1C 8-F1E 8-F2U 8-F2C	ES-348463 ES-347617 EF-309387 EF-310229 EF-623103 EF-306950 EF-306957	SW SLIDE X012B11Y 01-2 (U ONLY) Δ SW SELECTOR 0240#02 01-4 (U ONLY) Δ FUSE TSC A 250V 1.00A (U) Δ FUSE TSC 125V 1.00A (C,A) Δ FUSE SEMKO T 250V 1.00A (E,B,S,V) Δ FUSE TSC A 250V 2.00A (U) Δ FUSE TSC 125V 4.00A (C,A) Δ FUSE SEMKO T 250V 2.00A

9. CONNECTOR P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
9-D1,2	ED-323979	D SILICON W03B F12 100/1.0A
9-D3,4	ED-200469	D SILICON H DS448 FA5

CHASSIS FRONT BLOCK



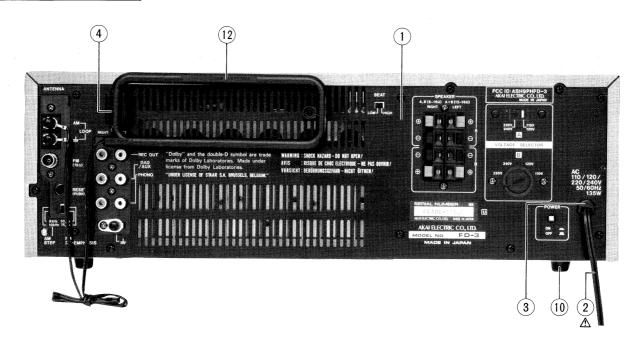
10. CHASSIS FRONT BLOCK

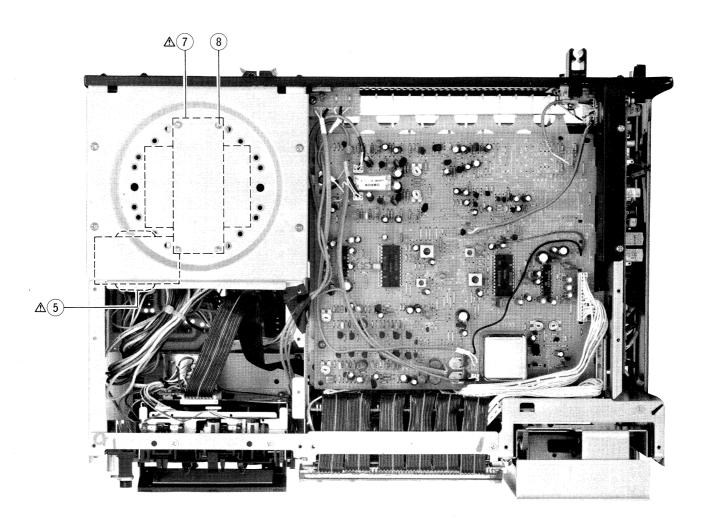
REF. NO.	PARTS NO.	DESCRIPTION
10-1	MZ-344850	GEAR TRANSFER (A)
10-2	MZ-347146	GEAR TRANSFER (B)
10-3	MZ-347620	DUMPER ASSY 3734-A-A-999-02
10-4	ZG-348994	SP PULL REMOCON TRANSFER
10-5	MZ-344853	CAM STOPPER
10-6	ZG-312943	SP T1-3.2/0.29-11.2 T1-059
10-7	SE-344873	ESCUTCHEON TRANSFER
10-7P	SE-344873B	ESCUTCHEON TRANSFER-P

11. REMOTE CONTROL BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
11-1	AX-347598	REMOCON UNIT SFA10A001
11-1P	AX-349153	REMOCON UNIT SFA10A001
		NEW
11-2	SP-749998	COVER BATTERY FD-3
11-2P	SP-749999	COVER BATTERY FD-3-P
11-3	TA-344883	STATION CARDS (EXCEPT L-B)
11-4	TA-344883B	STATION CARDS (B)
		(L-B ONLY)
11-IC201	EI-749983	IC UPD1943G
11-Q01	ET-302502	TR 2SC2001 K
11-Q02	ET-398788	TR 2SC945L R
11-LED01,02	ED-705414	D LED SE303A INFRARED
11-LED03	ED-322247	D LED SLP151D RED
11-SL-SW	ES-749947	SW SLIDE
11-S01to15	ES-336780	SW TACT KHH10902
11-S17to28	ES-336780	SW TACT KHH10902
11-X01	EH-749948	FILTER CE CSB455C

ASSEMBLY BLOCK

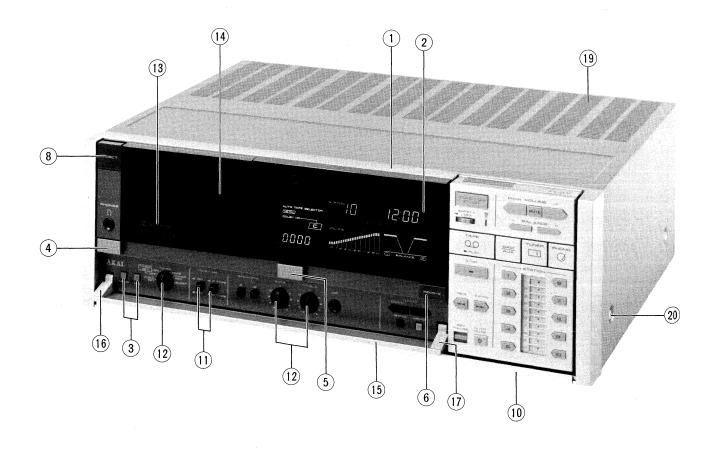




12. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
12-1U	SP-344875G	PANEL REAR (A) FD-3 (U)
12-1C	SP-344875H	PANEL REAR (B) FD-3 (C,A)
12-1E	SP-344875J	PANEL REAR (B) FD-3 (E,V)
12-1S	SP-344875K	PANEL REAR (B) FD-3 (S)
12-1LE	SP-344875L	PANEL REAR (B) FD-3L (E)
12-1LB	SP-344875M	PANEL REAR (B) FD-3L (B)
12-2U	EW-306428	△ AC CORD 2 CORES KP-205A,
		VFF U/T (U)
12-2C	EW-343363	△ AC CORD 2 CORES KP-8, SPT-2
		105C UC (C)
12-2A	EW-305691	△ AC CORD 2 CORES KP-8, SPT-1
		UC (A)
12-2E	EW-336923	△ AC CORD 2 CORES KP-419C,
		LTCE-2 F EV (E,V)
12-2S	EW-336924	△ AC CORD 2 CORES KP-560,
		LTSA-2FS(S)
12-2B	EW-347025	△ AC CORD 2 CORES LTBS-2 F B
		(B)
12-3	EZ-631945	STRAIN RELIEF SR-4N-4
12-4	SZ-332739	HOLDER ANTENNA
12-5U	BT-347690	△ TRANS POWER C1003T2-72 (U)
12-5C	BT-34691	Δ TRANS POWER C1003T2-32
		(C,A)
12-5E	BT-347692	△ TRANS POWER C1003T2-42
		(E,V)
12-5S	BT-347693	↑ TRANS POWER C1003T2-52
12-6x	ZS-315511	ST PAN30×06STL CMT CUP
12-7U	BT-347592	↑ TRANS POWER C1003-F71 (U)
12-7C	BT-347593	△ TRANS POWER C1003-F31 (C)
12-7A	BT-347594	△ TRANS POWER C1003-F21 (A)
12-7E	BT-347595	△ TRANS POWER C1003-F41 (E,V)
12-7S	BT-347596	△ TRANS POWER C1003-F51 (S,B)
12-8	ZS-301398	ST BID40×08STL CMT
12-9x	ML-344857	JOINT
12-10	SA-347145	FOOT
12-11x	ZS-344914	ST PAN30×12STL CMT CUP
12-12	EE-337976	ANT LOOP LA-200A
12-13x	ZW-305013	RV POP32 (A)

FINAL ASSEMBLY BLOCK



13. FRONT PANEL BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
	FRONT PANEL	BLOCK
13-1	BD-C1003A060A	PANEL FRONT BLK FD-3
13-1P	BD-C1003A060B	PANEL FRONT BLK FD-3-P
13-2	SE-344863	WINDOW FLD
13-3	SK-344871	KNOB (4)-B
13-4	SK-344868A	KNOB (2)-A
13-4P	SK-344868F	KNOB (2)-A-P
13-5	SK-344868C	KNOB (2)-C
13-5P	SK-344868H	KNOB (2)-C-P
13-6	SK-344868E	KNOB (2)-E
13-7x	ZG-347622	SP PUSH KNOB (2)
13-8	SK-344869	KNOB (3)
13-9x	ZG-322189	SP (B)
	FINAL ASSEM	
13-10	SP-344862	SASH FRONT
13-10P	SP-344862B	SASH FRONT-P
13-11	SK-344870	KNOB (4)-A
13-12	SK-332534D	KNOB ROTARY (D)
13-13	BD-344865B	LID FRAME FD-3
13-14	BD-344864	LID
13-15	SP-344872A	
13-15P	SP-344872E	PANEL DOOR FD-3-P
13-15L	SP-344872B	PANEL DOOR FD-3L
13-15L	P SP-344872F	PANEL DOOR FD-3L-P
13-16	TP-344879A	HINGE DOOR PANEL (L)
13-17	TP-344879B	HINGE DOOR PANEL (R)
13-18x	ZS-341962	PT BR23×10STL CMT
13-19	BC-344859	COVER
13-20	ZS-322570	ST BID40×08STL NI3

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AX-349153	11-1P	ED-301911	4-D2	EI-315379	5-IC6	ER-322787	3-R69
BA-C1002A090A	6-1 U	ED-301911	4-D3	EI-315381	6-IC4	ER-322787	3-R73
BA-C1002A090B	6-1C	ED-301911	4-D4	EI-322248	6-IC1	ER-322787	3-R77
BA-C1002A090C	6-1E	ED-301911	4-D8	EI-322599	3-IC5	ER-323074	3-R11
3A-C1002A090D	6-1 V	ED-301911	5-D1	EI-327074	6-X1	ER-323074	3-R12
BA-C1002A090E	6-1S	ED-301911	5-D6	EI-330226	5-IC9	ER-323074	7-R21
BA-C1002 A090 F	6-1 LE	ED-301911	5-D7	EI-332258	5-IC7	ER-323074	7-R20
3A-C1002A090G		ED-301911	5-D8	EI-332259	7-IC2	ER:324184	6-R114
3A-C1003A040A		ED-301911	5-D9	EI-332287	5-IC4	ER-324184	6-R65
3A-C1003A040B	3-1C	ED-301911	5-D10	EI-336717	6-IC5	ER-324184	6-R7
BA-C1003A040C		ED-301911	5-D11	EI-336794	5-IC10	ER-324185	6-R63
3A-C1003A040D	3-1 V	ED-301911	5-D12	EI-336794	5-IC11	ER-324337	6-R22
3A-C1003A050A	4-1	ED-301911	5-D13	EI-336794	5-IC12	ER-324337	6-R21
3A-C1003A070A	5-1 U	ED-301911	5-D14	EI-337017	5-X3	ER-324337	6-R15
BA-C1003A070B	5-1C	ED-301911	5-D15	EI-337228	3-IC3	ER-324337	6-R20
3A-C1003A070C	5-1E	ED-307690	3-D13	EI-337228	3-IC1	ER-324480	6-R107
BA-C1003A070D	5-1LE	ED-307690	3-D16	EI-337835	4-IC3	ER-324480	6-R93
3A-C1003A070E		ED-307690	7-D2	EI-338171	5-IC5	ER-324480	6-R92
BB-T2051A020C		ED-307690	7-D1	EI-338171	5-IC8	ER-324934	3-R52
3C-344859	13-19	ED-308952	4-D9	EI-343349	6-IC2	ER-324934	6-R113
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EC-307723 EC-314688	8-C1C	ED-345149	3-D21	EL-347456		ER-347437	5-SR1
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C-314992 CC-320548	8-C1U	ED-346583	3-D20	EO-202215	6-T5	ES-336780	5-SW1
C-320548 C-320548		ED-347149	5-D27	EO-202216	6-T8	ES-336780	5-SW2
	8-C2 U 3-C37	ED-347963	3-D19	EO-307786	6-T6	ES-336780	5-SW3
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		EF-306950	3-F4U	EO-336934	5-L2	ES-336780	11-S11
C-338577	8-C2E	EF-306950	3-F5U	EO-336934	7-L2	ES-336780	11-S05
C-343855	3-C29	EF-306950	8-F2U	EO-336934	7-L3	ES-336780	11-S26
C-344478 C-344478	6-C25C	EF-306950	8-F3U	EO-337598	6-T3	ES-336780	11-S25
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C-344482	6-C27	EF-306954	3-F4C	EO-337880	3-L1	ES-336780	11-S08
C-344482 C-344482	6-C28	EF-306954	3-F5C	EO-338409	8-FL1	ES-336780	11-S21
	6-Ć43	EF-306956	3-F8C	EO-338420	3-L5	ES-336780	11-S03
C-344483	6-C36	EF-306956	3-F9C	EO-338420	7-L1	ES-336780	11-S19
C-344486	6-C26U	EF-306957	8-F2C	EO-342936	3-L4	ES-336780	11-S18
C-344486	6-C25U	EF-309387	3-F6U	EO-343351	6-T7	ES-336780	11-S01
C-345605	3-C33	EF-309387	8-F1U	EO-345904	6-L1	ES-336780	11-S22
C-345605	3-C36	EF-309390	3-F7C	EO-347162	4-L2	ES-336780	11-S17
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D-200469	5-D23	EF-601301	3-F4E	ER-307565	4-FR1	ES-336780	11-S06
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D-200469	9-D4	EF-601301	3-F8E	ER-308028	3-R49	ES-336780	11-S10
D-200469	9-D3	EF-601301	3-F9E	ER-311685	3-R40	ES-336780	11-S12
D-224526	3-D18	EF-601301	8-F2E	ER-315407	6-FL1U	ES-336780	11-S14
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<u> </u>		.11 -71737	~ ~ T			

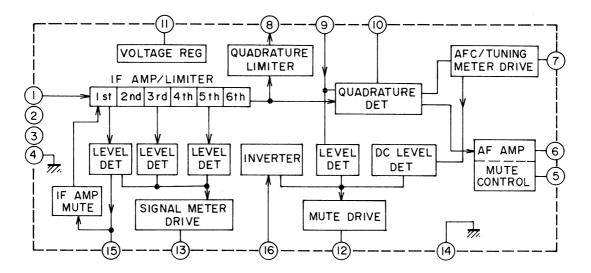
SECTION 3

SCHEMATIC DIAGRAM

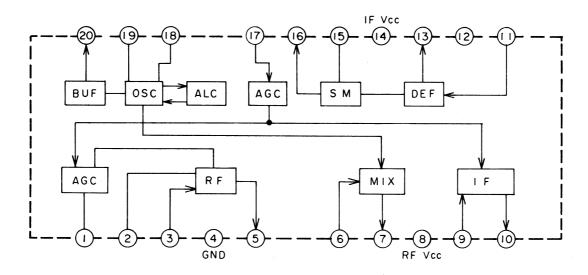
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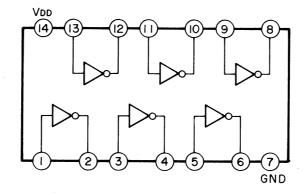
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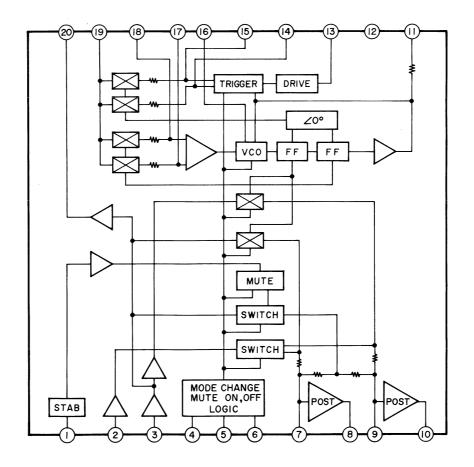
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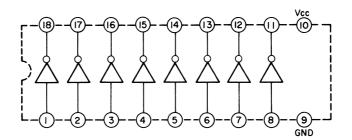
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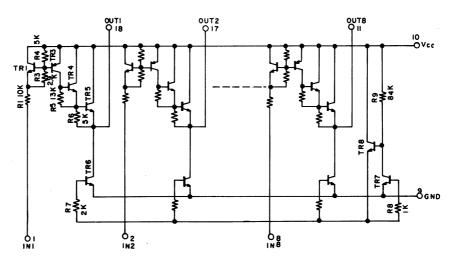


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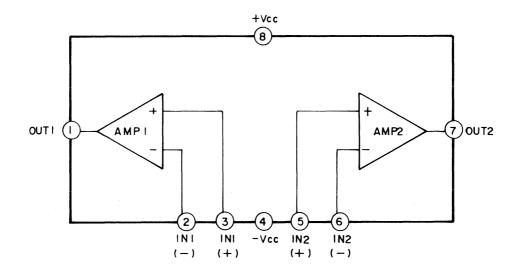


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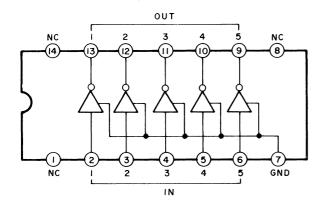




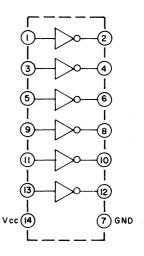
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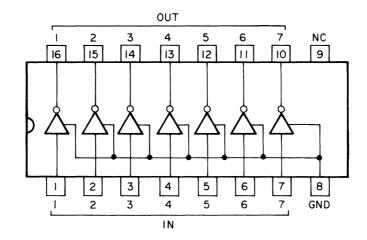
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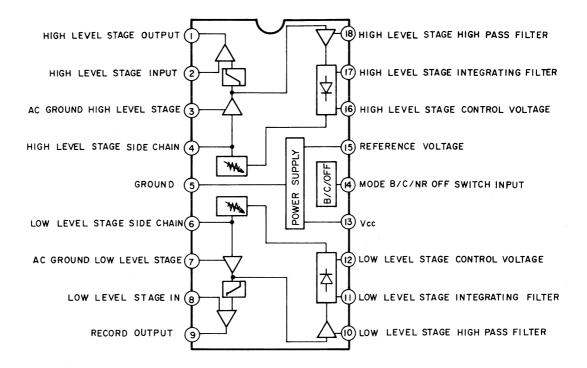
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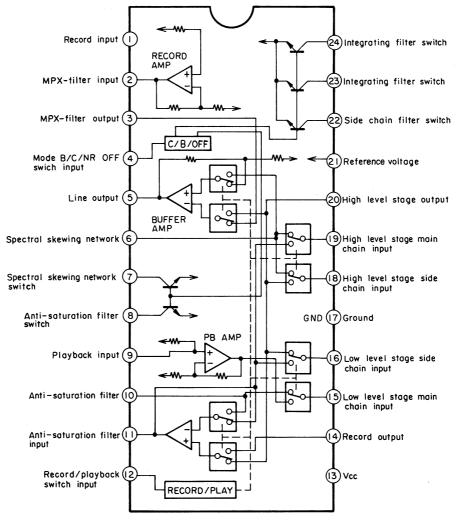
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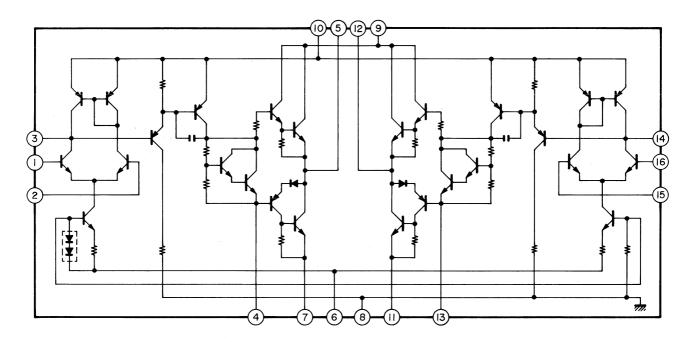
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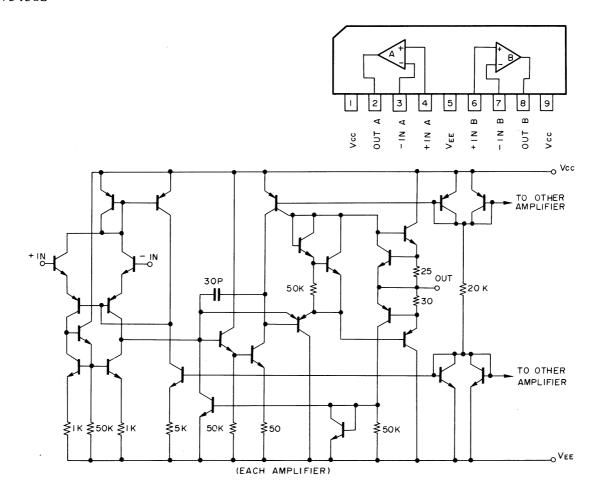
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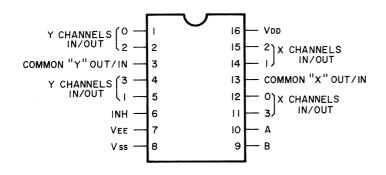
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TA75458S

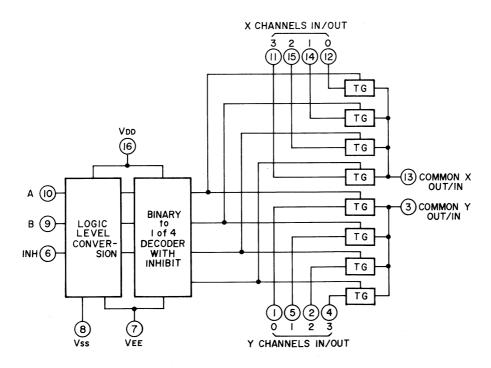


TC4052BP



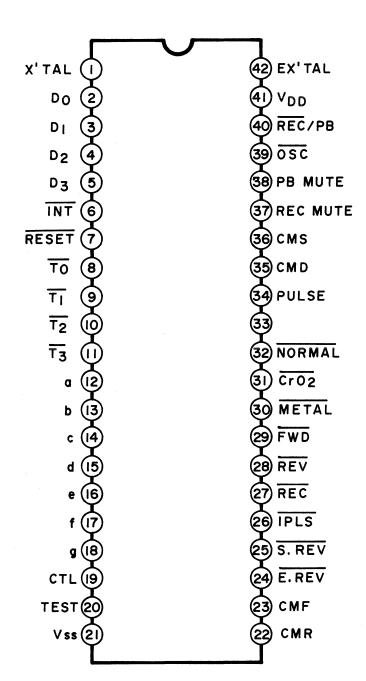
INHIBIT 6	40	B 9	"ON" CHANNEL
L	L	L	ox ,oy
L	Н	L	IX,IY
L	L	Н	2X,2Y
L	Н	Н	3X,3Y
Н	X	Х	NONE

X=DON'T CARE



FUNCTION (Analogue SW IC TC4052BP) Selection Signal

Output	A	В
PHONO	1	0
TUNER	0	1
AUX	1	1
TAPE	0	0



TERMINAL DESCRIPTION OF IC3 LM6405H-145

Pin No.	Symbol	Description				
1	EXTAL	X'tal oscillator terminal				
2	PULSE	Reel Rotation Pulse Detection input				
3	D0					
4	D1	Operation Control Data input				
5	D2	¹ J				
6	INT	Connected to ground				
7	RESET	Reset Terminal				
8	TO	8G)				
9	T1	9G				
10	T2	FLD Digit Designation output & Matrix Digit output				
11	T3	11G)				
12	a					
13	b	1				
14	c	<u>a</u>				
15	d	FLD 7 Segment Data output f g b				
16	e	e <u>l_a_</u> c				
17	f	1				
18	g	J				
19		Not used (No connection)				
20	TEST					
21	Vss	Connected to ground				
22	REC MUTE	REC Mute Control output, REC Mute at "H"				
23	PB MUTE	PB Mute Control output, PB Mute at "H"				
24	ŌSC	OSC Control output, Activate OSC at "L"				
25	REC/PB	REC/PB Control output, REC mode at "L" & PB mode at "H"				
26	PLUNGER (R)	PLUNGER (R) Drive				
27	PLUNGER (F)	PLUNGER (F) Drive				
28	REC LAMP	REC)				
29	PLAY LAMP	PLAY activate at "L"				
30	METAL LAMP	METAL LAMP Drive				
31	CrO ₂ LAMP	CrO_2				
32	NORM LAMP	NORMAL				
33	K0	Digit Signal and Matrix input				
34	K1	Jugit signal and matrix input				
35	REW					
36	STOP					
37	PLAY	Not used and connected to +5V line				
38	FF	That used and connected to 13 v line				
39	REC					
40	AUTO MUTE])				
41	V _{DD}	+5V				
42	X TAL	X'tal oscillator terminal				

OPERATION CONTROL DATA

IC Pin No. & Symbol	5	4	3
Function	D2	D1	D0
STOP	0	0	0
FF	0	0	1
REW	0	1	0
PLAY	0	1	1
REC	1	0	0
AUTO MUTE	1	0	1
REC PLAY	1	1	0
NO OPERATION	1	1	1

^{* 1 = &}quot;H", 0 = "L"

DIGIT SIGNAL & MATRIX

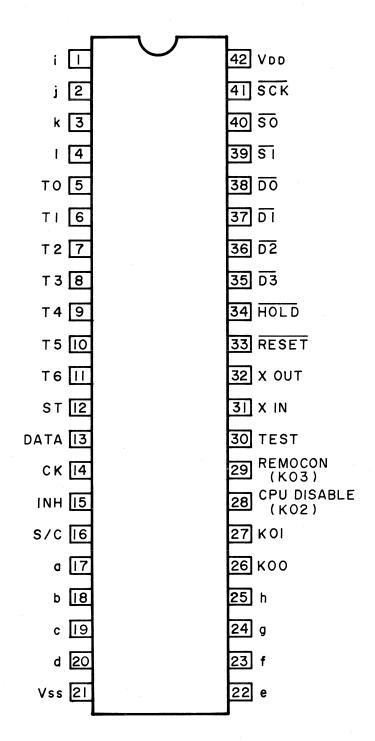
Symbol & Pin No. Symbol (Pin No.)	T3 (11)	T2 (10)	T1 (9)	T0 (8)
K0 (33)			TS1	COUNTER RESET
K1 (34)			TS2	REC DETECTION

* TS1: TAPE SELECTOR SW901 (CrO₂)
TS2: TAPE SELECTOR SW902 (METAL)
REC DETECTION: A·R SW903 (ANTI REC)

TAPE SELECTION

IC Pin No. & SW TAPE SELECTION	TS1	TS2	PIN 30	31	32
NORMAL	L	L	Н	Н	L
CrO ₂	L	Н	L	Н	Н
METAL	Н	Н	Н	L	Н
METAL	L	L	Н	L	Н

TC47C21P (NH-100)



TERMINAL DESCRIPTION OF IC1 TC47C21P (NH-100)

Pin No.	Symbol	Description					
1	i						
2	j						
3	k	FLD Segment Data output					
4	1	J					
5	TO	1G \					
6	T1	2G					
7	T2	3G					
8	Т3	4G FLD Digit Designation output & Matrix Digit output					
9	T4	5G					
10	T5	6G					
11	T6	7G					
12	ST	Strobe Pulse					
13	DATA	Data Pulse for Electronic Volume (IC2: TC9154P) Control					
14	CK	Clock Pulse					
15	INH	Key Input Inhibit signal input					
16	S/C	START/CUT, produces a pulse when PHONO button is depressed.					
17	a)					
18	b	FLD 7 Segment Data output FLD 7 Segment Data output f g b e d c					
19	c						
20	d)					
21	Vss	Connected to ground					
22	e						
23	f	FLD 7 Segment Data output					
24	g						
25	h	FLD Segment Data					
26	K00						
27	K01	Key Matrix input					
28	CPU DISABLE (K02)	Key Input Inhibit signal output for IC2 TC47C20P (NH-20D)					
29	REMOCON (K03)	Remote Control Data Pulse input					
30	TEST	Connected to ground					
31	Xin	Y'tal oscillator (X1: 4.2 MHz) tarminals					
32	Хоит	X'tal oscillator (X1: 4.2 MHz) terminals					
33	RESET	Reset terminal					
34	HOLD	Back up Detection input					
35	D 3	Not used and connected to +5V line					
36	D 2						
37	D 1	Control Data output for IC3 LM6405H-145					
38	D0	J					
39	SĪ	Input					
40	SO	Output Serial Data between IC2 TC47C20P (NH-200)					
41	SCK	Clock					
42	V _{DD}	+5V					

-SCHEMATIC DIAGRAM FD-3-

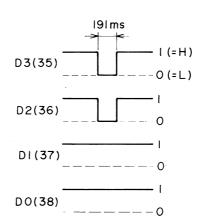
KEY INPUT MATRIX (FLD DIGIT Designation & Matrix Digit output)

Symbol (Pin No.) Symbol (Pin No.)	T6 (11)	T5 (10)	T4 (9)	T3 (8)	T2 (7)	T1 (6)	T0 (5)
K0 (26)	REC/PB	DISK END	FWD/REV	24h/12h	MIN	HOUR	TIMER ON/OFF
K1 (27)	SLEEP	TUNER REC	TAPE PLAY	TUNER PLAY	ON TIMER- SET	OFF TIMER- SET	CLOCK SET

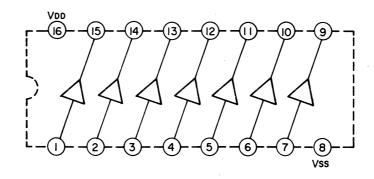
CONTROL DATA for IC3 LM6405H-145

IC Pin & Symbol Function	35 D3	36 D2	37 D1	38 D0
STOP	0	0	0	0
FF	0	0	0	1
RWD	0	0	1	0
FWD	0 1	0	1	1 .
REC	0	1	0	0
REC MUTE	0	1	0	1
REC FWD	0	1	1	0
REV	1	0	1	1
REC REV	1	1	1	0 .

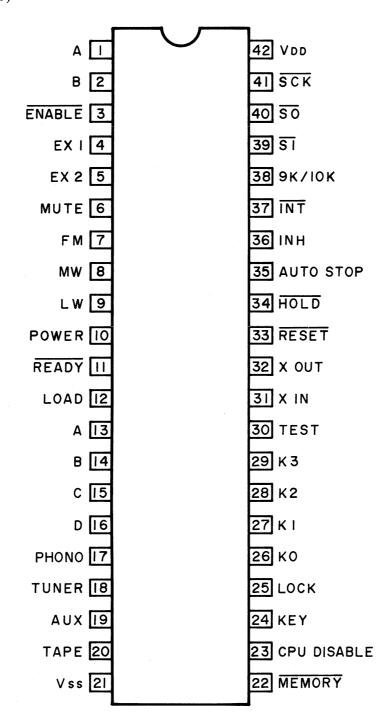




TC5066BP



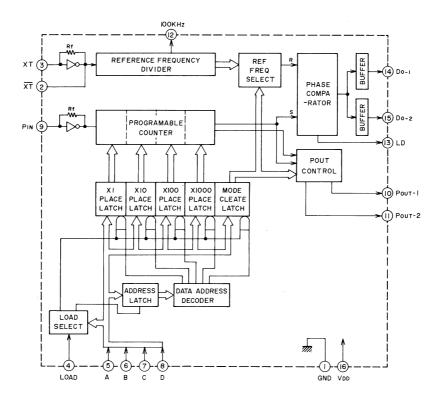
TC47C20P (NH-200)



TERMINAL DESCRIPTION OF IC2 TC47C20P (NH-200)

Pin No.	Symbol	Description			
1	A	Function (Analogue SW) Selection signal output for IC2 (TC4052BP)			
2	В				
3	ENABE	Not used and connected to +5V line			
4	EX1	Not used and connected to +5V line			
5	EX2	Not used and connected to +3 v line			
6.	MUTE	Tuner Section Audio Mute output			
7	FM				
8	MW	Band Selection Data output, active at "H"			
9	LW				
10	POWER	Power Relay (RL1) Drive output			
11	READY	Not used and connected to +5V line			
12	LOAD	PLL Data Write signal (PLL Load signal)			
13	A	PLI Eroppensy Data output for DLI IC (ICS: TC0125PD)			
14	В				
15	C	PLL Frequency Data output for PLL IC (IC5: TC9125BP)			
16	D	<u> </u>			
17	PHONO	Function Display, lit at "H"			
18	TUNER				
19	AUX				
20	TAPE				
21	Vss	Connected to ground			
22	MEMORY	MEMORY (FLD) Display, lit at "L"			
23	CPU DISABLE	Key Input inhibit signal output for IC1 TC47C21P (NH-101)			
24	KEY	Key Input Common signal output			
25	LOCK	Key Input Lock [K0 (2/3 Band), K2 (FM Band Upper/Lower), K3 (FM Step 50kHz/100kHz)]			
26	K0	DOWN			
27	K1	UP (Var. Immyt			
28	K2	BAND Key Input			
29	K3	MEMORY			
30	TEST	Connected to ground			
31	Xin	X'tal oscillator terminals			
32	Хоит	A tai oscillator terminais			
33	RESET	Reset terminal			
34	HOLD	Back-up Detection			
35	AUTO STOP	AUTO STOP Detection input, AUTO STOP at "H"			
36	INH	Key Input inhibit signal input			
37	ĪNT	Connected to 5V line			
38	9K/10K	AM 9 kHz/10 kHz STEP Selection input, 9 kHz at "L" & 10 kHz at "H"			
39	SI	Input			
40	SO	Output Serial Data between IC1 TC47C21P (NH-100)			
41	SCK	Clock			
42	V _{DD}	+5V			

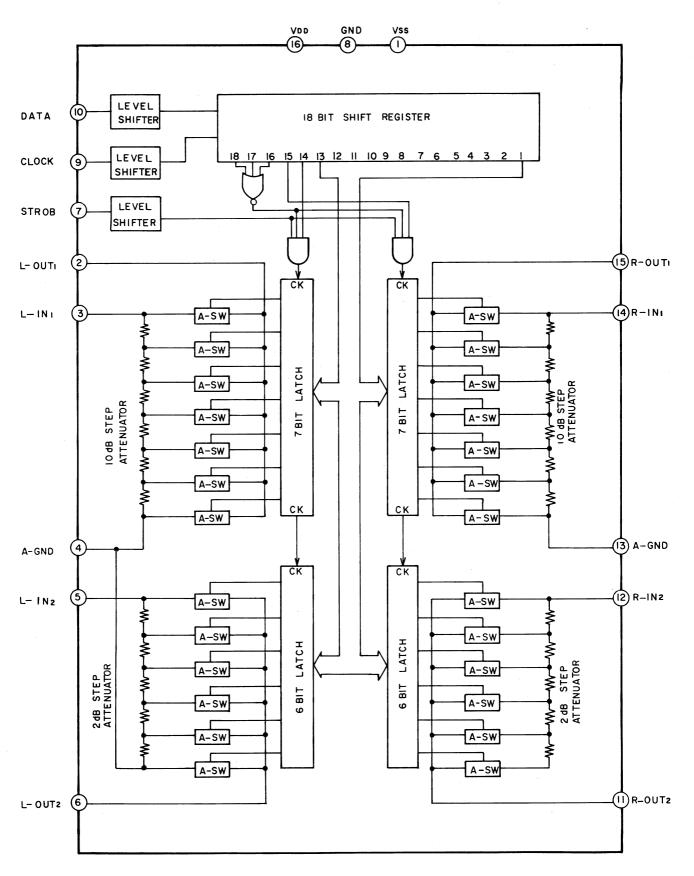
TC9125BP



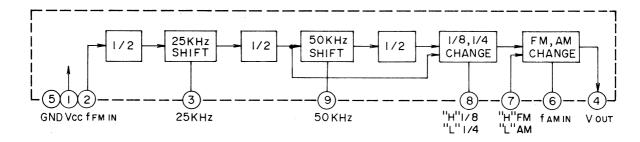
TERMINAL DESCRIPTION OF IC5 TC9125BP

Pin No.	Symbol	Designation of terminal	Description of functions and operations	
1	GND	Earth terminal		
2	XT	Crystal oscillator connection	Connection of 9.0 MHz crystal oscillator.	
3	XT	terminal		
4	LOAD	Load input terminal	Data reading instruction input terminal for A, B, C and D. Data is read when this terminal is at "H" level, but when at "L" level, the previous data is held regardless of other inputs.	
5	A			
6	В	Program/data input	Input terminal for reference frequency selection data	
7	С	terminals	and programmable counter division digit data.	
8	D			
9	Pin	Programmable counter input terminal		
10	Роит-1	Programmable counter output	To be connected to the prescaler TD6102P for fine adjustment of IF frequency in FM or for 50 kHz shift in Europe. The signal of Pout-1 and Pout-2 is output at the	
11	Pout-2	terminal	point of different phase. * Pout-2 is not used (No connection)	
12	100 kHz	100 kHz clock output terminal	Not used (No connection)	
13	LD	Lock-out detection terminal	Not used (No connection)	
14	Do-1	Phase comparator output	To be connected to low peer filter	
15	Do-2	terminal	To be connected to low-pass filter.	
16	Vdd	Power terminal	+5V	

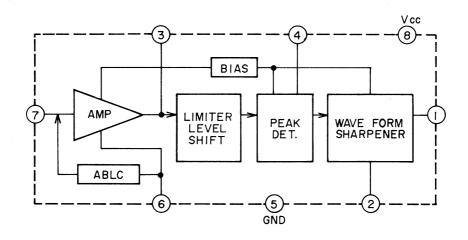
TC9154P



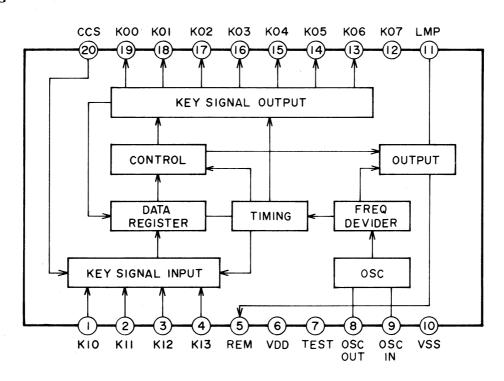
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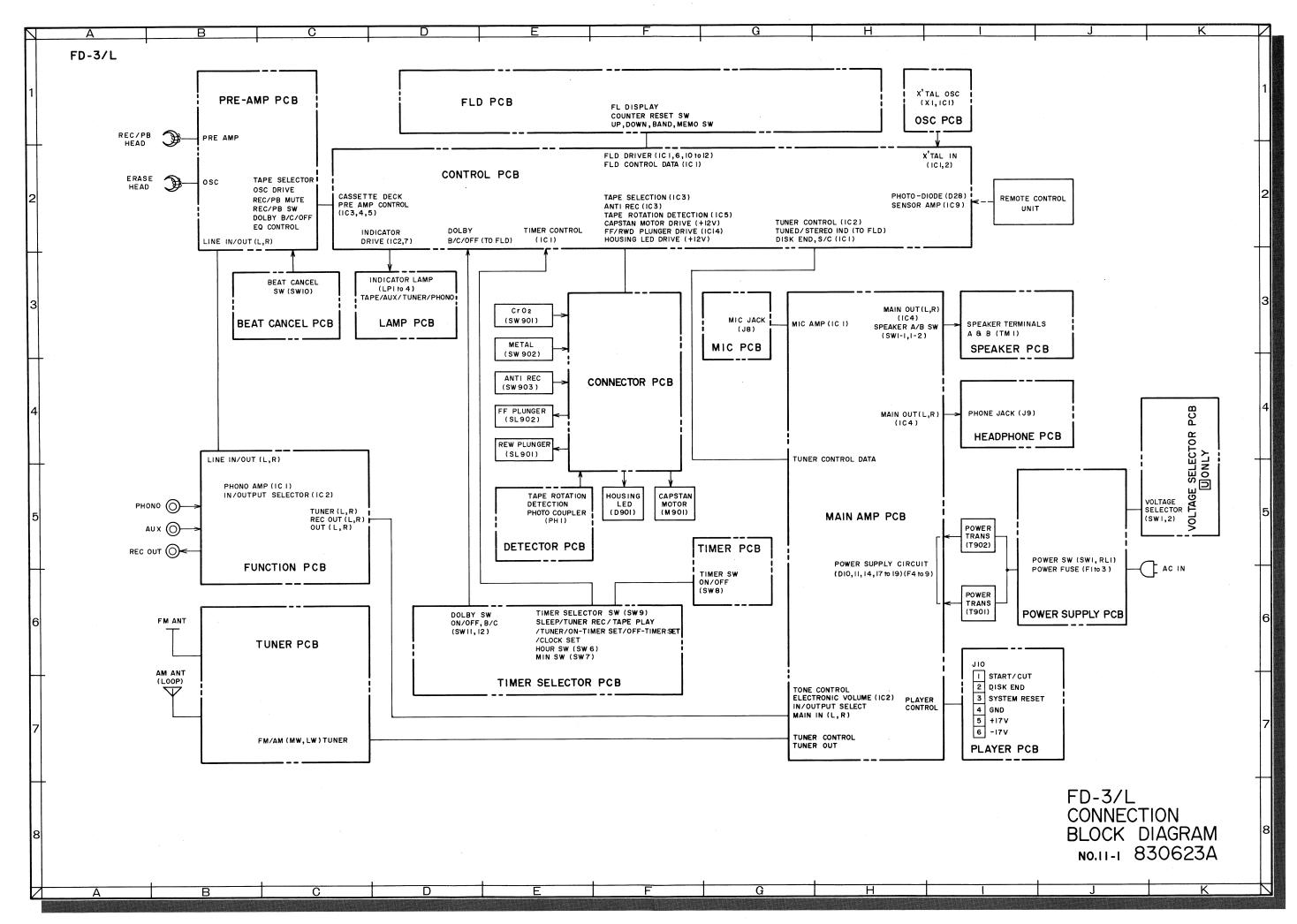


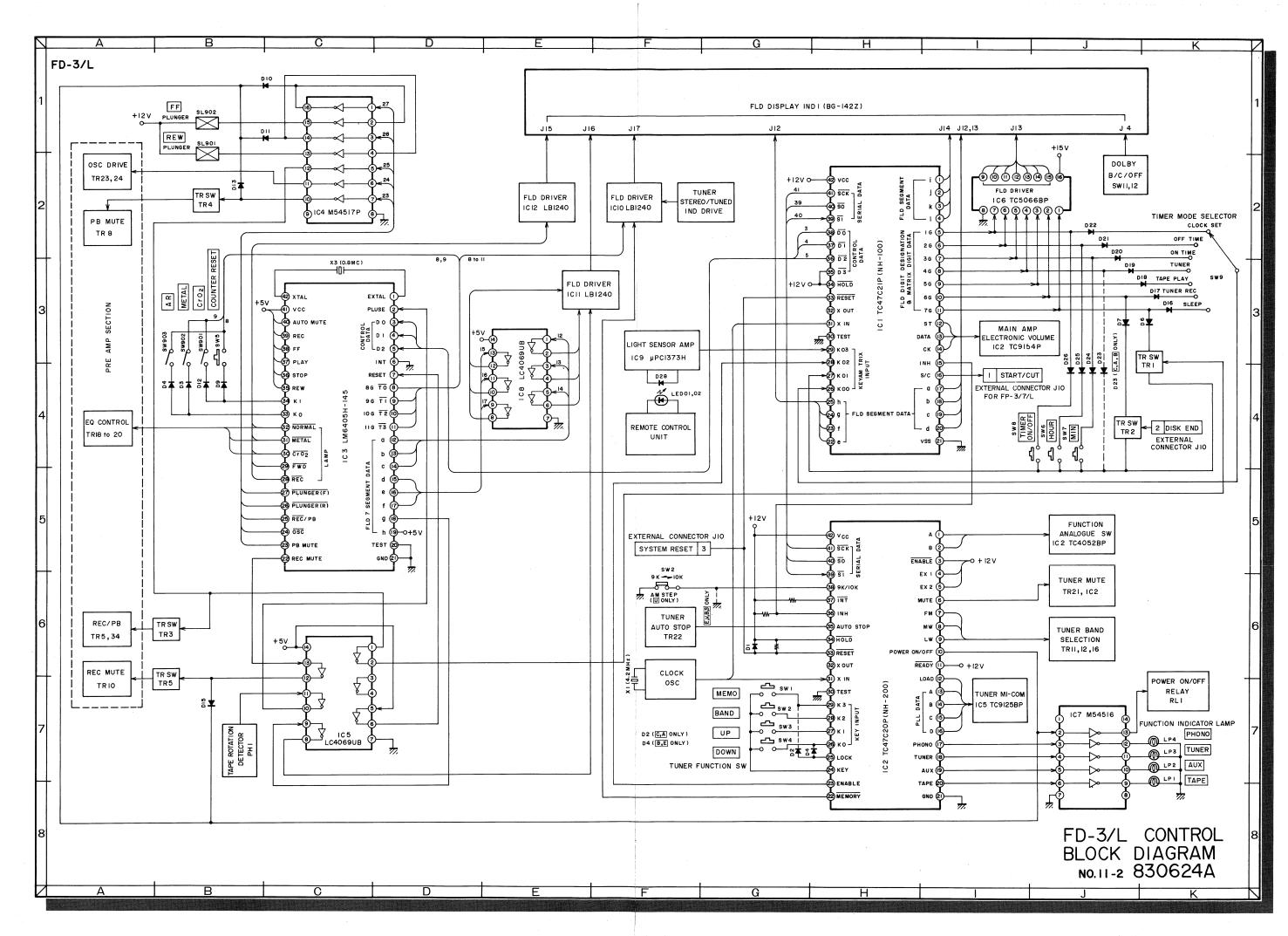
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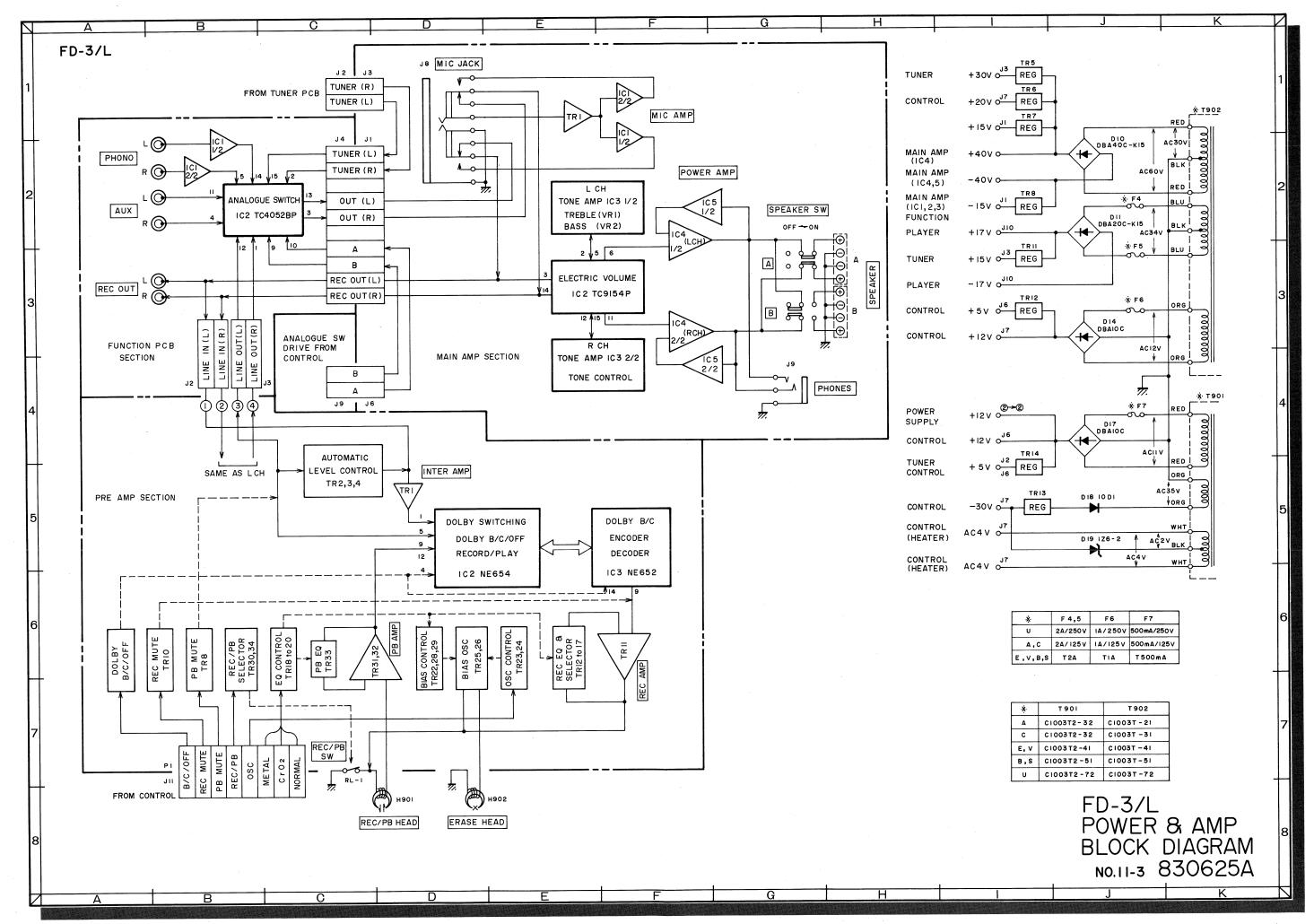


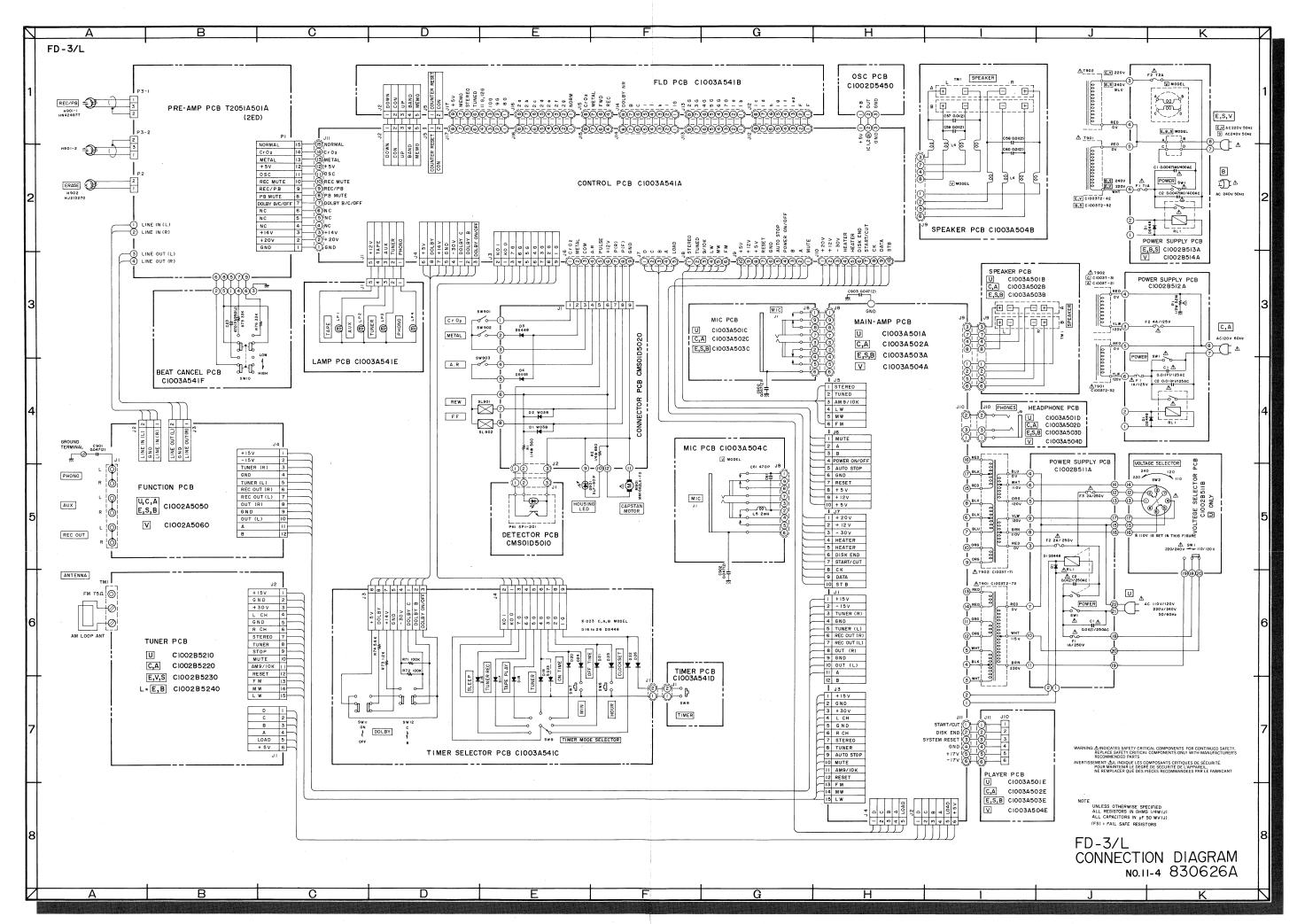
μPD 1943G

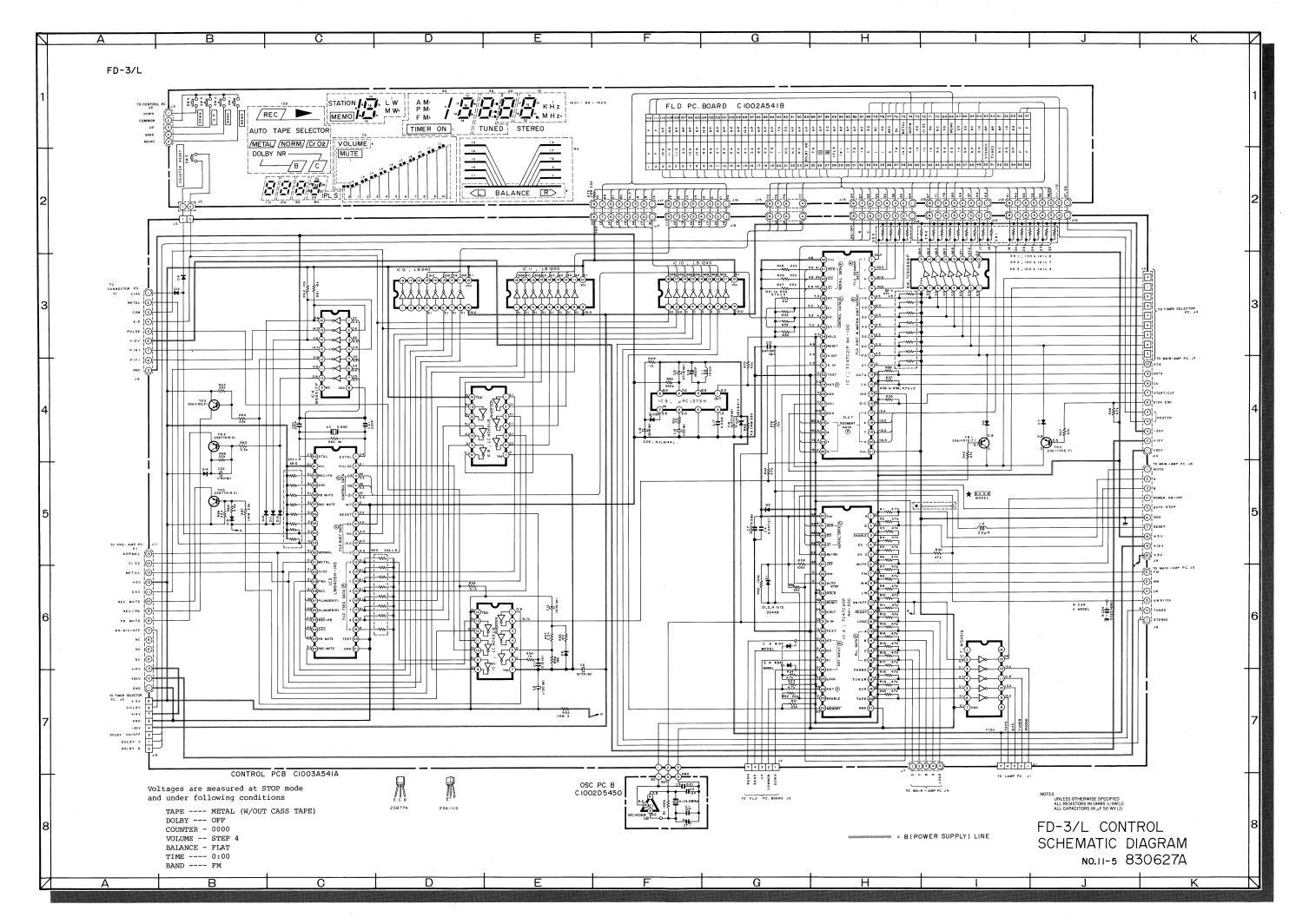


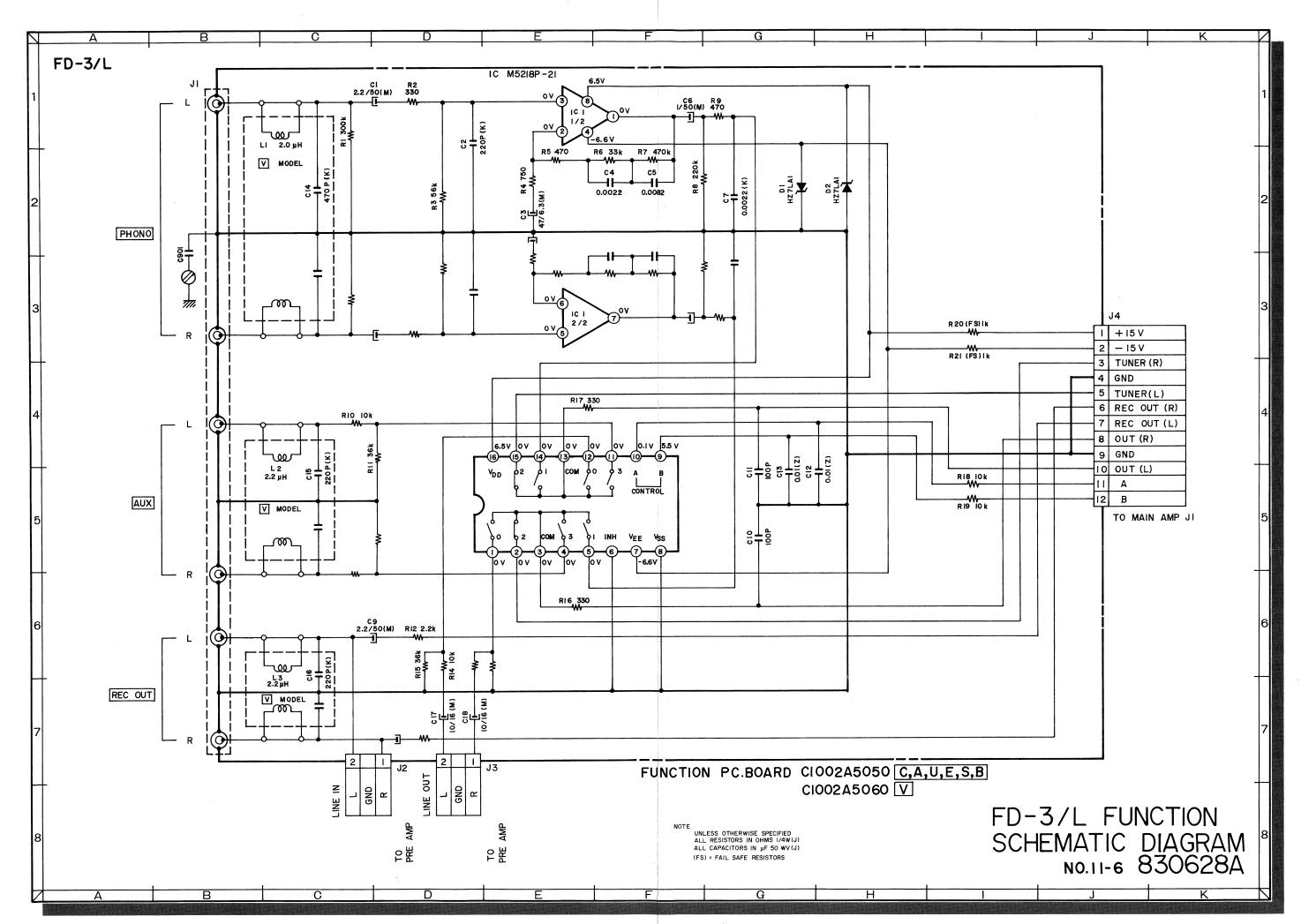




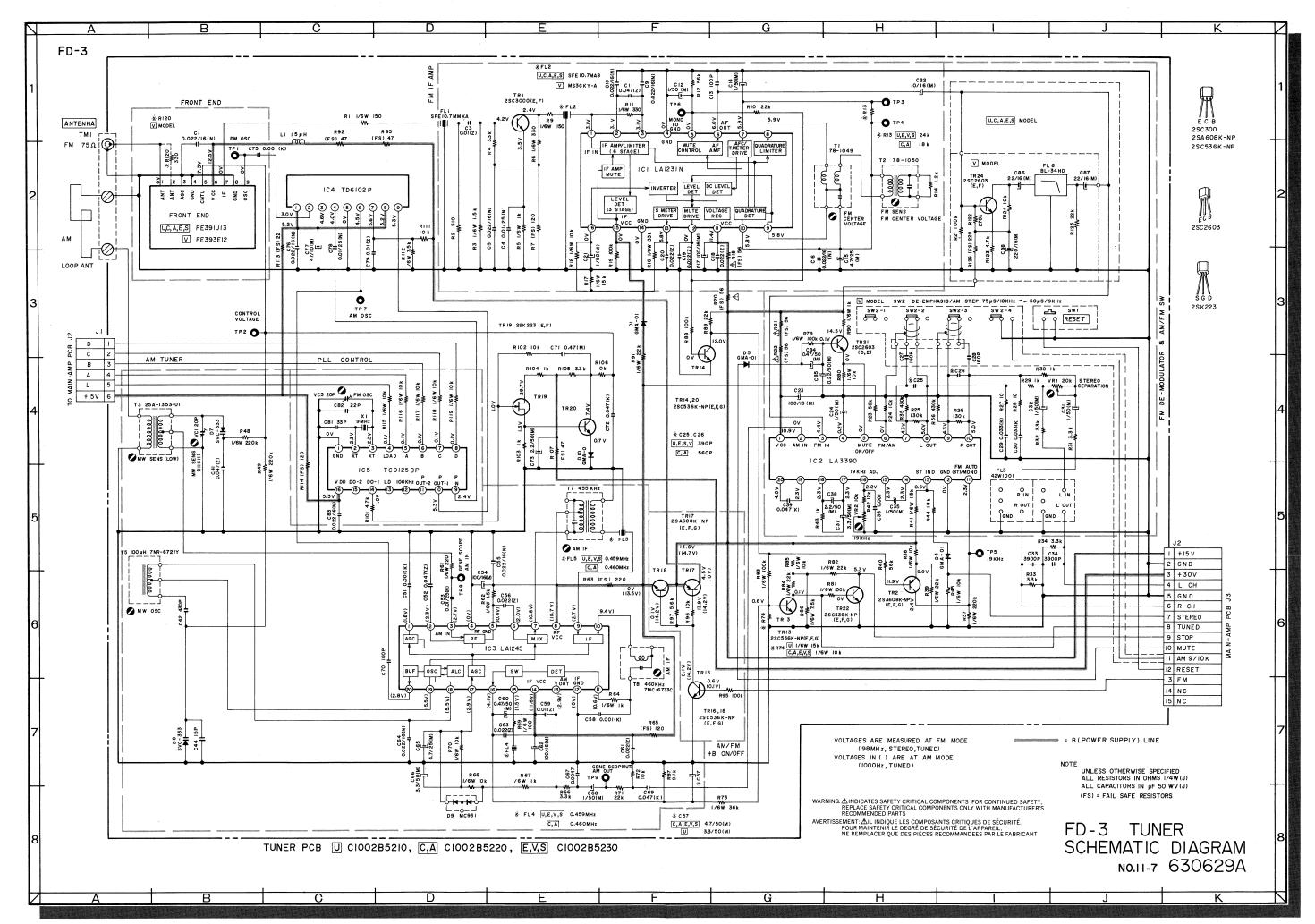


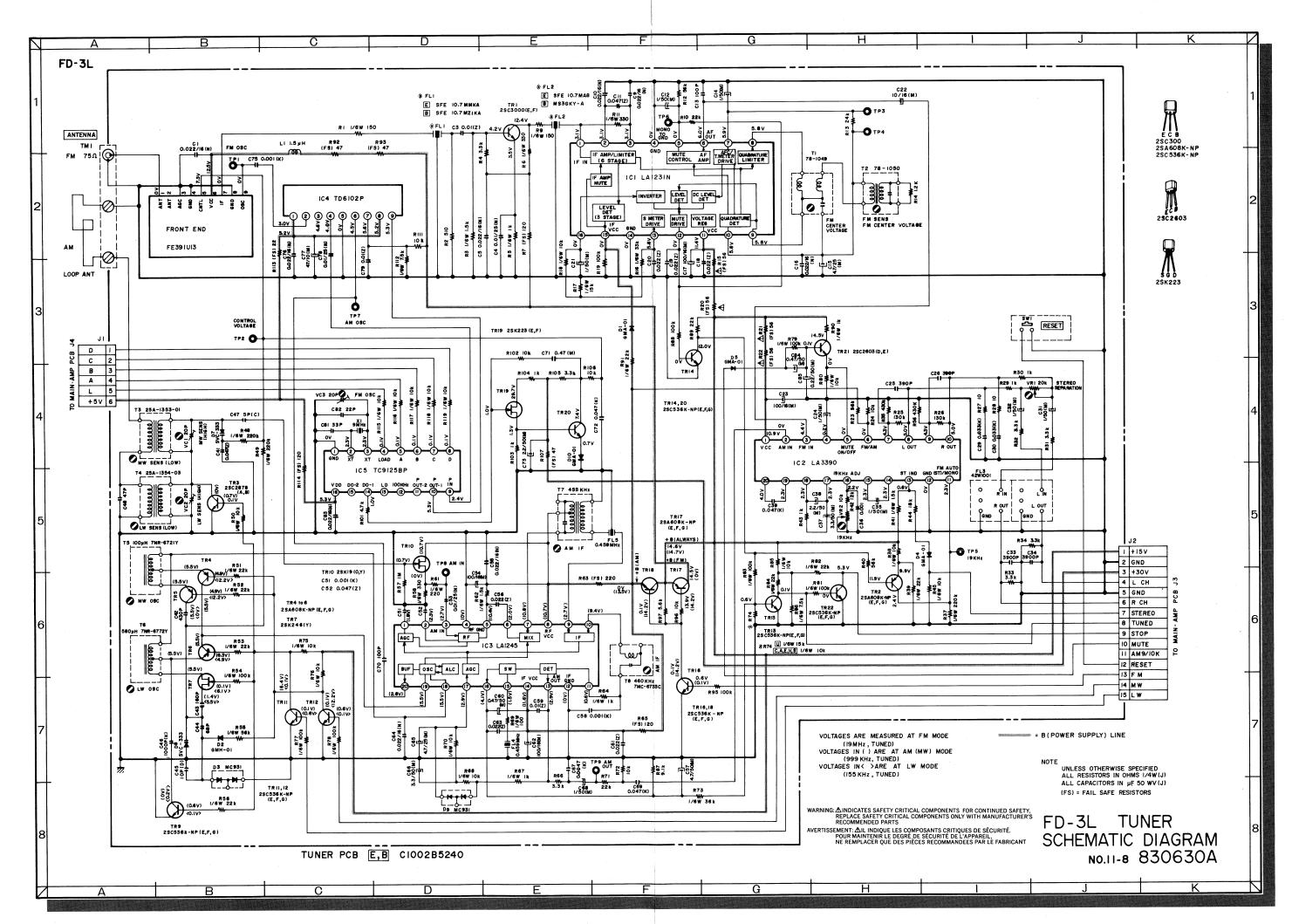


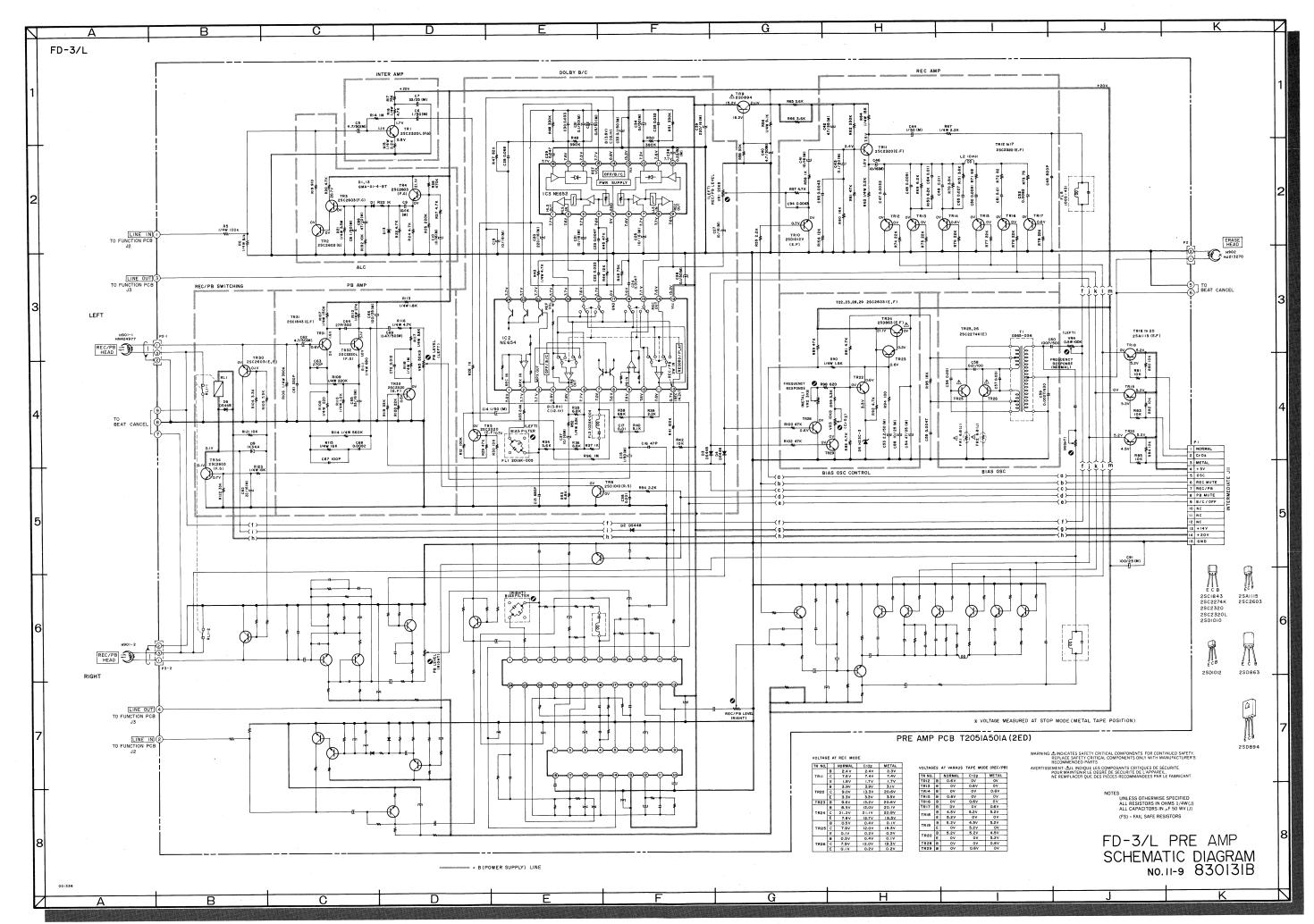


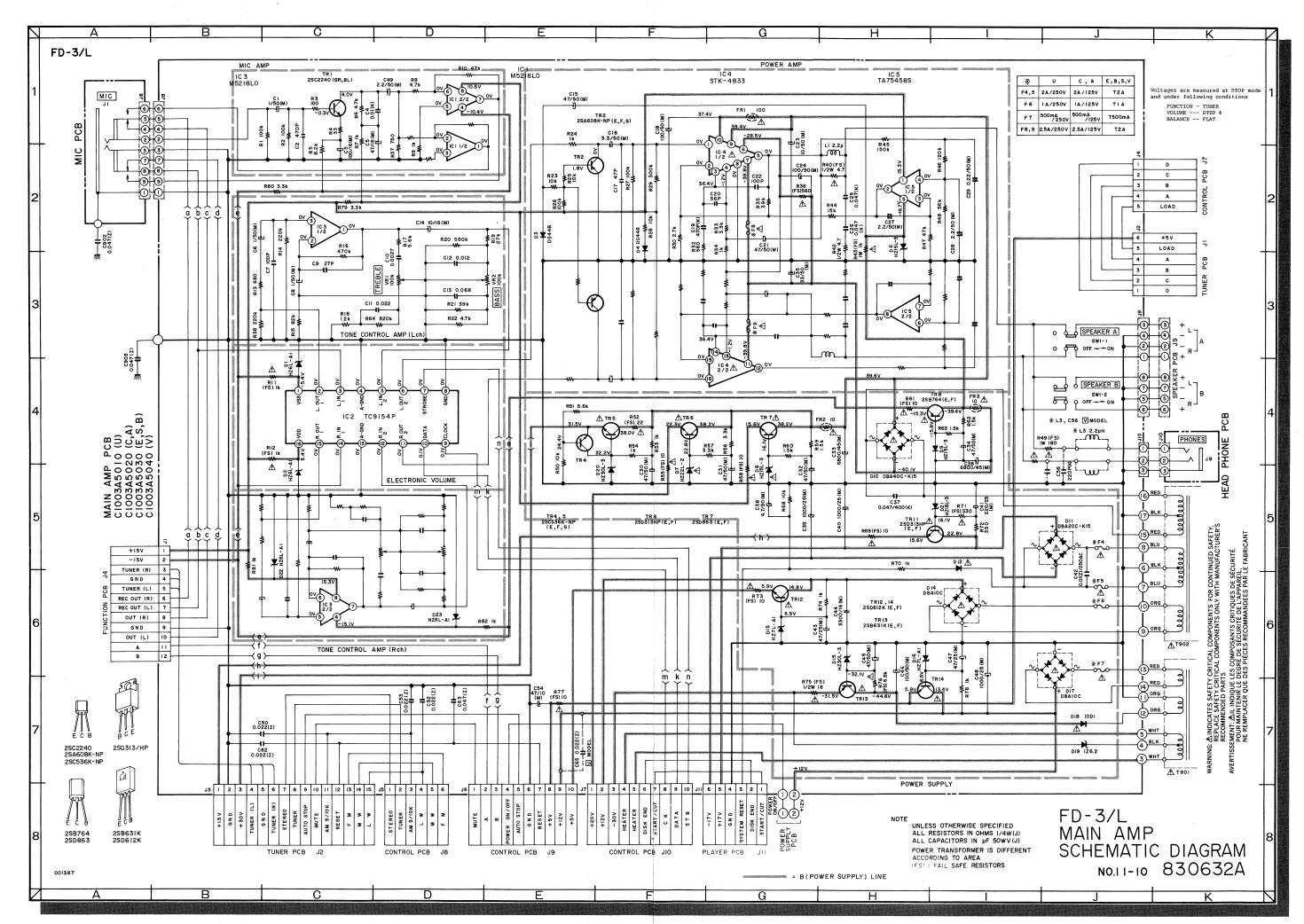


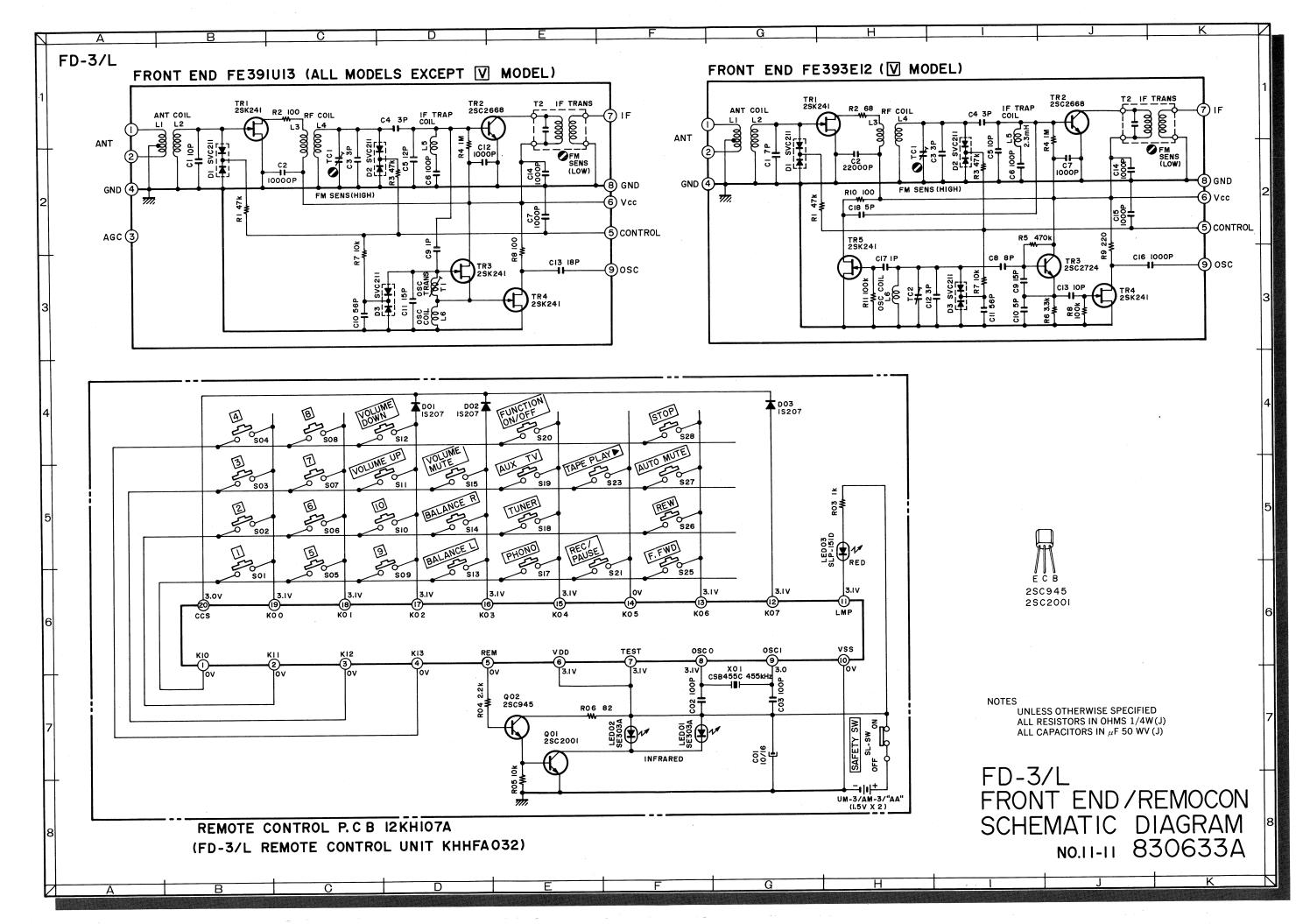
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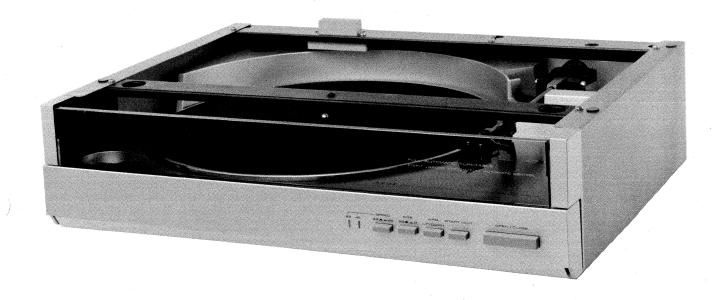












SECTION 2

SERVICE MANUAL

MODEL FP-3

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

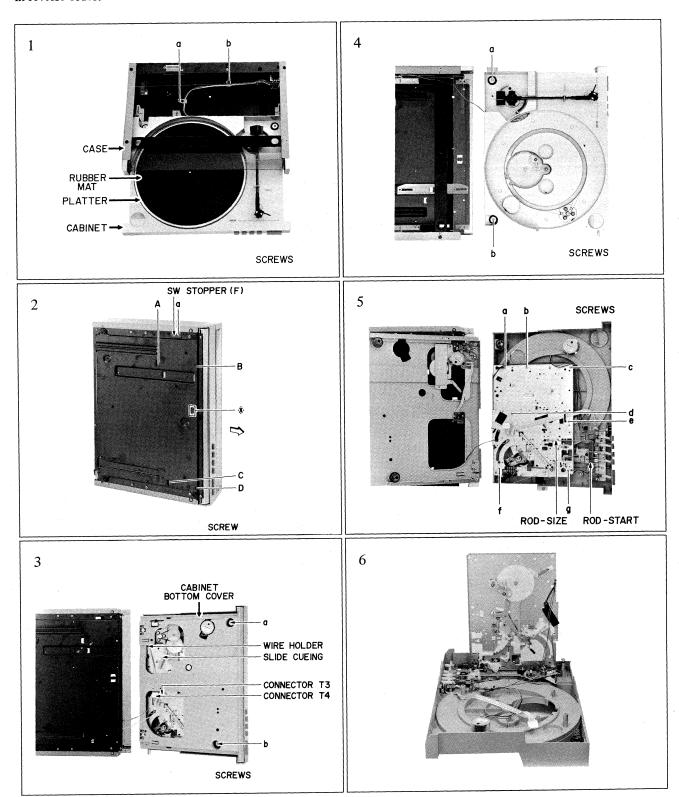
I. SPECIFICATION ION

TURNTABLE SECTION DRIVE SYSTEM & MECHANISM	Belt Drive, Fully Automatic, Front Loading System
MOTORS	Electronically speed controlled DC motor × 1
MOTORS	DC motor for Loading system x 1
SPEED	33-1/3 rpm, 45 rpm
WOW AND FLUTTER	0.04% (WRMS)
RUMBLE	73 dB (DIN 8)
CARTRIDGE	YM Type
REPLACEMENT STYLUS	RS-83

^{*} For improvement purposes, specifications and design are subject to change without notice.

II. DISMANTLING OF UNIT

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.



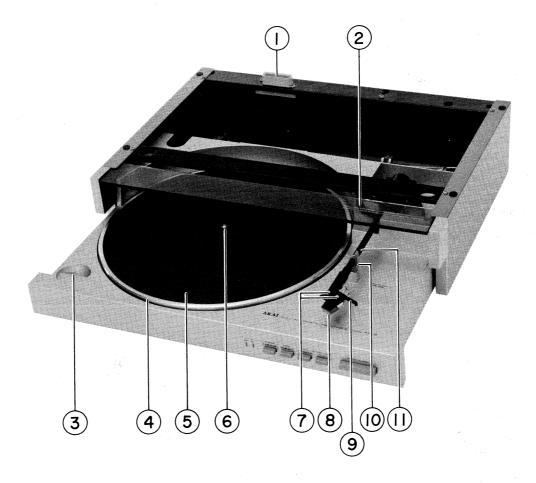


Fig. 3-1

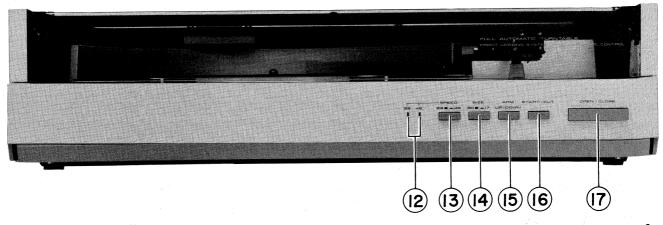


Fig. 3-2

- 1. POWER CONNECTOR
- 2. ARM LIFTER
- 3. 45 RPM ADAPTER HOLDER
- 4. PLATTER
- 5. RUBBER MAT
- 6. SPINDLE
- 7. OVER HANG ADJUSTMENT SCREWS
- 8. CARTRIDGE (WITH STYLUS)
- 9. HEADSHELL

- 10. TONE ARM REST AND CLAMP
- 11. TONE ARM
- 12. SPEED INDICATORS
- 13. SPEED SELECTOR
- 14. SIZE SELECTOR
- 15. ARM UP/DOWN SWITCH
- 16. START/CUT BUTTON
- 17. OPEN/CLOSE BUTTON

IV. PRINCIPAL PARTS LOCATION

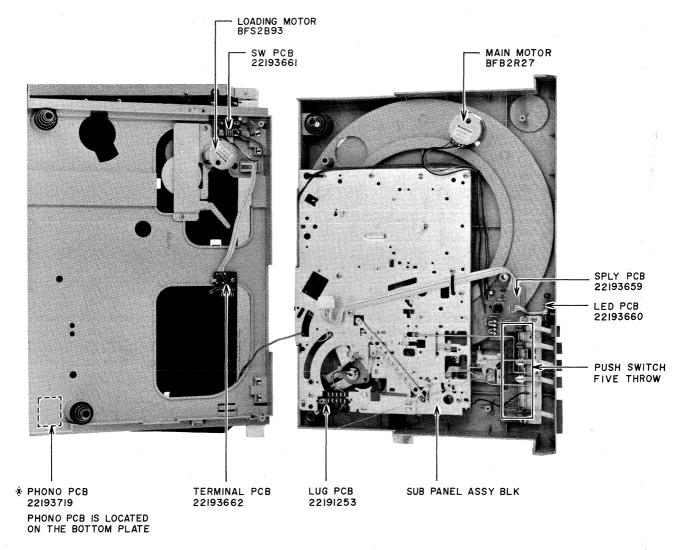


Fig. 4-1

5-1. HORIZONTAL ADJUSTMENT

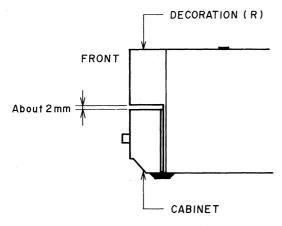


Fig. 5-1 Right Side View

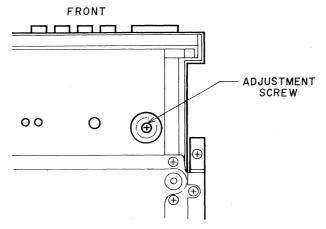


Fig. 5-2 Adjustment Point

Adjust the Adjustment screw which located bottom (refer to Fig. 5-2) so that the space between Decoration (R) and Cabinet is about 2mm.

5-2. TONE ARM HEIGHT ADJUSTMENT

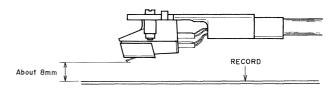


Fig. 5-3

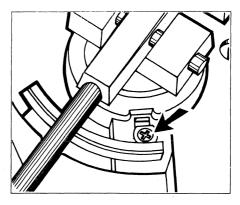


Fig. 5-4 Adjustment Point

With tone arm in the up-position, (tone arm is on the arm lifter), the stylus should be about 8mm above from the surface of the record. Turn the adjustment screw to change the height.

Clockwise: down Counterclockwise: up

5-3. LEAD IN/LEAD OUT POSITION ADJUSTMENT

- 1) Place a record on the platter. (Use a 30cm record.)
- 2) Auto-play the record and confirm where the stylus descends.
- 3) Depress the START/CUT button to Return the Tone arm to Tone arm Rest.
- 4) IF the Stylus does not descends within the Leadin aria. Adjust, Lead in/Lead out Adjustment screw with a screw driver,

Clockwith: To make the Stylus descend towards the spindle.

Counterclockwith: To make the Stylus descend away from the spindle.

5) The proper Adjustment of the Lead in position will automatically Adjust the proper Lead out position.

NOTE: Do not turn the screw to far carry out the adjustment a little at a time and confirm the position after each adjustment.

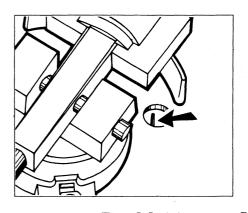


Fig. 5-5 Adjustment Point

5-4. SPEED ADJUSTMENT

FRONT



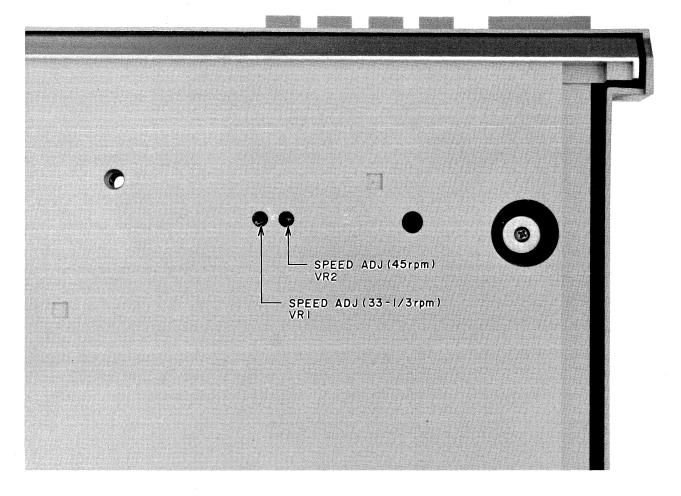


Fig. 5-6 Adjustment Point

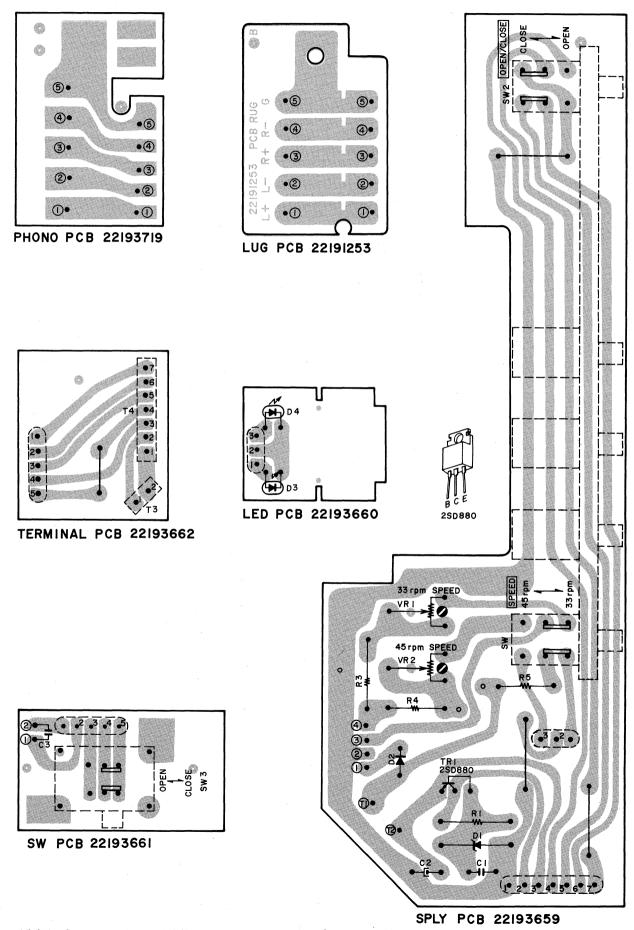
- 1) Set the speed selector to 33-1/3 rpm.
- 2) Play Back the Test Record (33-1/3rpm. 1,000Hz).
- 3) Adjust VR1 (5KB), so that the Speed is 1,000±5Hz.
- 4) Set the Speed Selector to 45rpm.
- 5) Play Back the Test Record (45rpm, 1,000Hz).
- 6) Adjust VR2 (10KB), so that the Speed is 1,000±5Hz.

VI. CLASSIFICATION OF VARIOUS P.C BOARDS

6-1. P.C BOARD TITLES AND IDENTIFICATION NUMBERS

P.C	BOARD TITLE	P.C BOARD NUMBER
SPLY	P.C Board	22193659
LED	P.C Board	22193660
SW	P.C Board	22193661
TERM	MINAL P.C Board	22193662
LUG	P.C Board	22191253
PHO	NO P.C Board	22193719

6-2. COMPOSITION OF VARIOUS P.C BOARDS



SECTION 3

PARTS LIST

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I. MODEL FD-1	
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1. MECHA BLOCK	
2. AF P.C BOARD BLOCK	
3. RADIO P.C BOARD BLOCK	
4. CONTROL P.C BOARD BLOCK	
5. ASSEMBLY BLOCK	
6. FINALY ASSEMBLY BLOCK	
II. MODEL FP-3	
1. P.C BOARD BLOCK	. 41
2. MECHA AND FA CHASSIS BLOCK	
3. ASSEMBLY BLOCK	
4. CABINET BLOCK	
INDEX	44

Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.

ATTENTION

- 1. When placing an order for parts, be sure to list the parts no. model no., and description. There are instances in which if any of this information is omitted, parts cannot be shipped or the wrong parts will be delivered.
- 2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
- 3. Because parts number and parts unit supply in the Preliminary Parts List may be partially changed, please use this parts list for all future reference.

HOW TO USE THIS PARTS LIST

- 1. This Parts List shows the parts that are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts". Select and order such parts from the "Common List for Service Parts".
- 2. The Recommended Spare Parts shows those parts in the Parts List which are considered particularly important for service.
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not be supplied in principle.
- 4. How to read list
 - a) Mechanism Block

b) P.C Board Block

2. HEAD BASE BLOCK

6. SYS. CON. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK GX-F66R	6-1	BA-T2034A070	A PC SYS CON BLK GX-F44R
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C	6-IC1	EI-324536	IC HD14049BP
2-3	ZS-477876	PAN20×03STL CMT	6-IC2	EI-336801	IC MB8841-564M
2-4	ZS-536488	BID20×08STL CMT	6-IC3	EI-331661	IC SN7405N
2-5	ZG-402895	CS ANGLE ADJUST SPRING	6-IC4	EI-336725	IC M54527P
7.7	\ T		6-TR1to4	ET-200985	TR 2SC2603 F,G
1 \	SP (Serv	vice Parts) Classification	6-TR5to28	ET-554657	TR 2SA733A P,Q
1 \	1	•	6-D1	ED-318292	D SILICON H 1S2473T-77 T26
1		"x" indicates the inability to	6-D2to4	ED-308952	D GERMA V 1K34A-LR F07
1 \	show th	at particular part in the Photo or	6-D5to10	ED-318292	D SILICON H 1S2473T-77 T26
\	Illustrat	ion.	6-X1	EI-318384	OSC X'TAL NC-18C
			T. T	T	3.579545MHZ
		nber corresponds with the			
	individu	al parts index number in that		SP (Serv	ice Parts) Classification
	figure			`	
	· ·			——This refe	rence numbers corresponds
L	———This nu	nber corresponds with the Figure —		with syn	abol numbers of Schematic
	Number			Diagram	

5. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List. It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index.

WARNING

△ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS

AVERTISSEMENT

∆ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT

MODEL FD-1

RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

```
REF. PARTS NO.
                           DESCRIPTION
  NO.
         BF-711395
                    FLYWHEEL ASSY
         BL-711389
                     PINCH ROLLER LEVER ASSY
                     MOTOR MAIN (W/PULLEY)
MOTOR REEL (W/PULLEY)

A TRANS POWER FD-1 (U)
         BM-711391
        BM-711410
        BT-709396
        BT-711442
                     ⚠ TRANS POWER FD-1 (C)
        BT-711444
                     ⚠ TRANS POWER FD-1 (S)
TRANS IFT AM-M-CE
        BT-709406
        BT-709407
                     TRANS IFT FM-D
  10
        EC-711437
                     C S-FIX
                    C S-FIX
C S-FIX R
  11
        EC-749457
        EC-709431
  12
  13
        ED-707776
                    △ D SILICON S1WB-10
        ED-703290
                     ⚠ D DIODE S2VB10
        ED-709421
                    D LED AA5527S-1
  16
        ED-701131
                    D LED LN-317GP
  17
        ED-703243
                    D LED LN217RP
  18
        ED-709420
                    D LED LN29RP
  19
        ED-701124
                    D LED LN328GP
  20
        ED-709419
                    D LED LN410YP
        ED-703310
                    D LED LN417YP
        ED-709441
                    D LED SG238W
                    D SILICON S5277B 100/1.0A
  23
        ED-306724
 24
        ED-702236
                    D SILICON 1S1553V
 25
        ED-703195
                    D SILICON 1S1555V-TP3
        ED-327098 D ZENER H WZ-061
  26
        ED-539976
                   D ZENER H WZ-130
       ED-709426
                   D ZENER WZ042
D DIODE WZ048
       ED-707934
 29
                   △ FUSE 1.5A

△ FUSE 1S-T
 30
       EF-711445
 31
32
       EF-702200
       EI-709399
                    IC AN7223
 33
       EI-213390
                   IC NJM4558D
       EI-709422
                   IC NJM4562DD
       EI-709427
                   IC TA7341P
IC TA7629P
 36
       EI-709247
 37
       EI-305456
                   IC TC409 UBC
 38
       EI-709428
                   IC TC9143P
 39
                   IC TC9147P
IC TD6301AP
IC TL072-D
       EI-344436
 40
       EI-344437
 41
       EI-709439
 42
       EI-702184
                   IC UPC1188H
       EI-701061
 43
                   IC UPC1197C
       EJ-709432
 44
                   JACK 6.5ST
TERMINAL 4P
 45
       EJ-702181
       EJ-749374
                   JACK US6P
 47
       EM-709415
                   IND FL FIP7A8S
                   AF CHOKE COIL AC-3750
 48
       EO-741909
 49
       EO-711436
                   COIL ANT LW
 50
       EO-709405
                   COIL ANT MW
 51
       EO-709425
                   COIL CHOKE AF 12MH
       EO-702240
                   COIL CHOKE AF 4.70MH
 53
       EO-709404
                   COIL CHOKE 221
       EO-742246
                   COIL FM-CHOKE
55
      EO-709409
                   COIL MPX
56
      EO-709430
                   COIL OSC AF
57
      EO-711435
                   COIL OSC MW
58
      EO-709414
                   OSC X'TAL
      EP-711418
                  SOLENOID PLAY
      ER-749371
                   ⚠ R FUSE 1/4W R22
      ER-749372
                   ⚠ R FUSE 1/4W R47 ⚠ R FUSE 1/4W 220J
      ER-704152
63
      ER-709408
                  FILTER CE
      ER-709423
                  FILTER DOLBY
65
                  R COMP 153 7P
R COMP 183 7P
      ER-711438
      ER-711439
      ER-711440
                  R COMP 223 7P

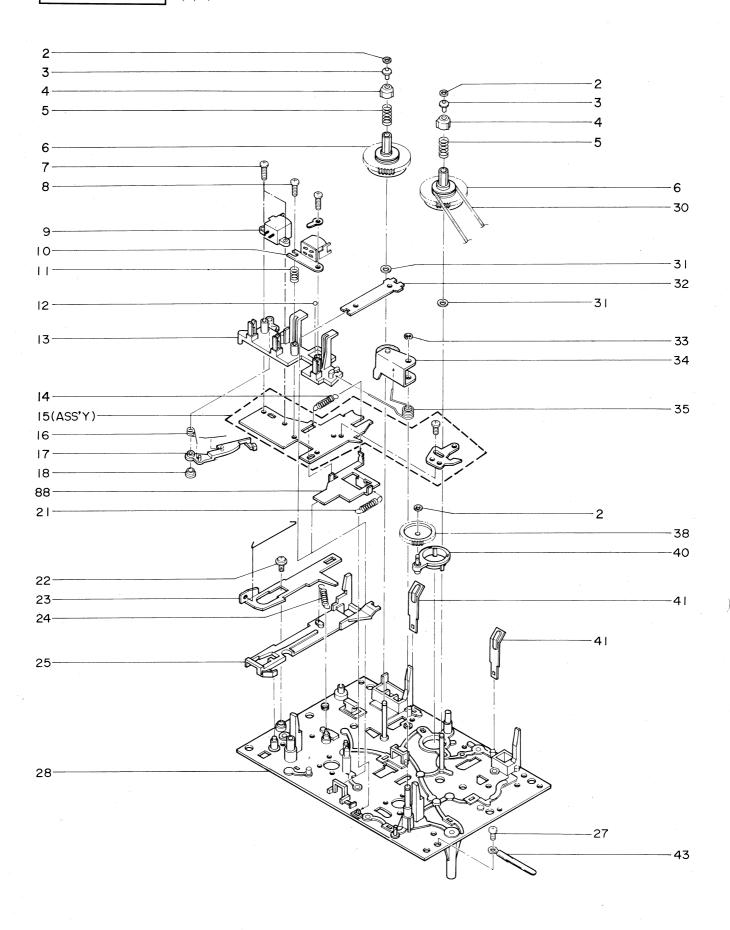
A SW SLIDE
SW CASSETTE
      ES-709398
      ES-711419
70
71
72
      ES-709418
                  SW KEY
      ES-709416
                  SW PUSH
      ES-709417
                  SW PUSH
73
      ES-709440
                  SW PUSH
74
      ES-709433
                  SW PUSH 4 THROW
75
      ES-709438
                  SW PUSH 4 THROW
      ES-709444
76
77
                  SW SLIDE
```

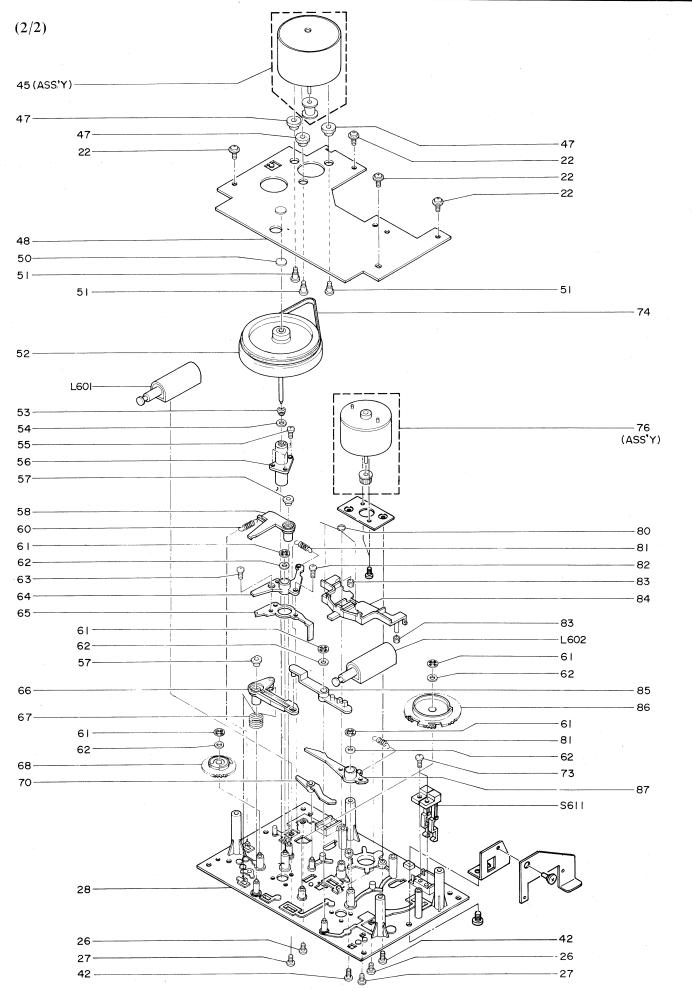
ES-709453

SW SLIDE

```
REF. PARTS NO.
                     DESCRIPTION
  78
      ET-741953
                  ⚠ TR 2SD325-E
  79
      ET-336864
                  TR FET 2SK223 F
  80
      ET-337759
                  TR FET 2SK246 GR
  81
      ET-337604
                  TR FET 2SK246 Y
      ET-741903
                  TR 2SA1015-GR
      ET-328861
                  TR 2SA562TM O.Y
      ET-306720
                  TR 2SA966 O,Y
      ET-741941
ET-330225
 85
                  TR 2SC1627A-Y
 86
                  TR 2SC1815 BL
      ET-325482
                 TR 2SC1959 Y
      ET-711433
                 TR 2SC2236Y
 89
      ET-702700
                 TR 2SC380TM O
 90
      ET-709429
                 TR 2SD1140
 91
      ET-338565
                 TR 2SD1302 R.S
 92
      ET-709400
                 TR 2SK192A-Y
      EV-703298
                 R S-FIX 103
 94
      EV-706603
                 R S-FIX 103
 95
      EV-703279
                 R S-FIX 503
                 SEMI-FIXED/VOL. 500 OHMS
VR SLIDE 60B-204-D
 96
      EV-703299
 97
      EV-709434
 98
     EV-709436
                 VR SLIDE 45W 204
 99
     HE-711380
                 HEAD E
100
     HP-711381
                 HEAD R/P
     MB-709443
101
                 BELT COUNTER
102
     MB-711409
                 BELT MAIN MOTOR REEL DRUM
103
     MT-711377
104
     MV-711398
                 CAPSTAN METAL CASE
105
     ZG-711390
                 SP PINCH ROLLER LEVER
```

MECHA BLOCK (1/2)





1. MECHA BLOCK

REF. NO.	PARTS NO	. DESCRIPTION
1-1	BB-711481	MECHA BLK MU-601FT
	MECHA BL	OCK (1/2)
1-2	ZW-711373	WASHER
1-3	MT-711374	
1-4	MT-711375	
1-5	ZG-711376	SP REEL
1-6	MT-711377	REEL DRUM
1-7	ZS-711378	SCREW
1-8	ZS-711379	SCREW
1-9	HE-711380	HEAD E
1-10	HP-711381	HEAD R/P
1-11	ZG-703359	SP HEAD
1-12	MV-711382	BALL
1-13	HA-711383	HEAD BASE
1-14	ZG-711384	SP HEAD CHASSIS
1-16	ZG-711385	
1-17	ML-711386	
1-30	MB-709443	
1-33	ZW-711388	
1-34	BL-711389	
1-35	ZG-711390	SP PINCH ROLLER LEVER
	MECHA BLO	OCK (2/2)
1-45	BM-711391	MOTOR MAIN (W/PULLEY)
1-47	MB-711392	` '
1-50	ZW-711393	
1-51	ZS-711394	SCREW SPL (MOTOR)
1-52	BF-711395	FLYWHEEL ASSY
1-53	ZG-711396	SP FLYWHEEL
1-54	ZW-711397	WASHER FLYWHEEL
1-56	MV-711398	CAPSTAN METAL CASE
1-57	MZ-711399	BUSH
1-58	ML-711400	LEVER LOCK PAUSE
1-60	ZG-711401	SP LOCK LEVER
1-61	ZW-711402	RING
1-64	ML-711403	LEVER PAUSE
1-66	ML-711404	LEVER LOCK PLAY
1-67	ZG-711405	SP LOCK LEVER
1-68	MZ-711406	CAM GEAR PAUSE
1-70	ML-711407	LEVER BRAKE
1-74	MB-711409	BELT MAIN MOTOR
1-76 1-80	BM-711410	MOTOR REEL (W/PULLEY)
1-80	ZG-711411 ZG-711412	SP BRAKE SLIDER SP PLAY LEVER
1-81	MB-711413	
1-83	MZ-711413	CUSHION BRAKE SLIDER BRAKE SLIDER
1-85	ML-711414 ML-711415	LEVER SOLENOID
1-86	MZ-711415	CAM GEAR PLAY
1-87	ML-711417	LEVER PLAY
1-L601	EP-711418	SOLENOID PLAY
1-L602	EP-711418	SOLENOID PLAY
1-S611	ES-711419	SW CASSETTE
1-89x	MC-709442	COUNTER

Note

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

2. AF	P.C BOA	RD BLOCK			REF.	PARTS NO.	DESCRIPTION
REF. NO.	PARTS NO.	DESCRIPTION			2-L302 2-L303	ER-709423 EO-709425	FILTER DOLBY COIL CHOKE AF 12MH
2-1U	BA-749453	PC AF BLK FD-1(U,E)			2-L304	EO-709425 EO-702240	
2-1C	BA-749454	PC AF BLK FD-1(C,A)			2-L305 2-L306	EO-702240 EO-702240	
2-1S	BA-749455	PC AF BLK FD-1(S)			2-L701	EO-709430	COIL OSC AF
	AF P.C BOA	RD				EC-709431	C S-FIX R
2-IC301	EI-709422	IC NJM4562DD			2-C1702 2-R001	EC-709431 ER-749370	C S-FIX R R CT 10M 560K
	EI-709247 EI-709247	IC TA7629P IC TA7629P			2-R002	ER-749371	⚠ R FUSE 1/4W R22
	EI-709247 EI-709439	IC TL072-D			2-R005	ER-324670	R OMF H SNP FS 2W 102J
2-IC501	EI-702184	IC UPC1188H			2-R006 2-R007	ER-305722 ER-333120	R OMF H SNP FS 2W 221J R OMF H SNP FS 2W 561J
	EI-702184	IC UPC1188H			2-R008	ER-333120	
	ET-741953 ET-741953	↑ TR 2SD325-E TR 2SD325-E			2-R010	ER-749372	
2-TR301	ET-336864	TR FET 2SK223 F			2-R011 2-R012	ER-749372 ER-749373	⚠ R FUSE 1/4W R47 R OMF H FS 3W 150
	ET-336864	TR FET 2SK223 F			2-R013	ER-336841	R OMF H SNP FS 1W 332J
	ET-330225 ET-330225	TR 2SC1815 BL TR 2SC1815 BL			2-R380	ER-704791	R FUSE 1/4W 470J
	ET-337759	TR FET 2SK246 GR			2-R511 2-R512	ER-704154 ER-704154	R OMF FS 1W 100J R OMF FS 1W 100J
	ET-337759	TR FET 2SK246 GR			2-R553	ER-331618	
	ET-337759 ET-337759	TR FET 2SK246 GR TR FET 2SK246 GR			2-R710	ER-704152	⚠ R FUSE 1/4W 220J
	ET-337759	TR FET 2SK246 GR	,		2-R839 2-R849	ER-333085 ER-329070	
	ET-337759	TR FET 2SK246 GR			2-R854	ER-658034	
	ET-330225 ET-330225	TR 2SC1815 BL TR 2SC1815 BL			2-R857	ER-321192	R OMF H SNP FS 2W 101 J
	ET-330225	TR 2SC1815 BL			2-C003		C EC V 472M 30.0DC
2-TR314	ET-330225	TR 2SC1815 BL			2-C004 2-C005	EC-710377 EC-710378	C EC V 472M 30.0DC C EC V 222M 25.0DC
	ET-338565	TR 2SD1302 R,S				2 EV-709434	
	ET-338565 ET-330225	TR 2SD1302 R,S TR 2SC1815 BL				LOGIC P.C	BOARD
	ET-330225	TR2SC1815 BL				EI-709428	IC TC9143P
	ET-330225	TR 2SC1815 BL			- I	EI-305456	IC TC4049UBC
	ET-330225 ET-330225	TR 2SC1815 BL TR 2SC1815 BL				EI-709427 ET-330225	IC TA7341P TR 2SC1815 BL
	ET-330225	TR 2SC1815 BL				ET-741903	TR 2SA1015-GR
	ET-338565	TR 2SD1302 R,S				ET-741903	TR 2SA1015-GR
	ET-338565 ET-337759	TR 2SD1302 R,S TR FET 2SK246 GR				ET-330225 ET-328861	TR 2SC1815 BL TR 2SA562TM O,Y
	ET-337759	TR FET 2SK246 GR			2-TR80	5 ET-328861	TR 2SA562TM O,Y
	ET-330225	TR 2SC1815 BL			I	7 ET-325482	TR 2SC1959 Y
	ET-330225 ET-330225	TR 2SC1815 BL TR 2SC1815 BL			1	ET-325482 ET-325482	TR 2SC1959 Y TR 2SC1959 Y
	ET-741941	TR 2SC1627A-Y			2-TR81	ET-325482	TR 2SC1959 Y
	ET-706720	TR 2SA966 O,Y			1	ET-325482	TR 2SC1959 Y
2-1 R703 2-D001	ET-330225 ED-703290	TR 2SC1815 BL ⚠ D DIODE S2VB10				ET-325482 ET-709429	TR 2SC1959 Y TR 2SD1140
2-D002	ED-707776	⚠ D SILICON S1WB-10				ET-325482	TR 2SC1959 Y
2-D003	ED-709441	D LED SG238W				ET-709429	TR 2SD1140 TR 2SA1015 Y
2-D005 2-D006	ED-310578 ED-539976	D ZENER H WZ-177 D ZENER H WZ-130				6 ET-703397 7 ET-330225	TR 2SC1815 BL
2-D007	ED-707934	D DIODE WZ048			2-D801	ED-702195	D SILICON 1S1555V-TP3
2-D301	ED-702195	D SILICON 1S1555V-TP3			2-D802	ED-702195	D SILICON 1S1555V-TP3
2-D302 2-D303	ED-702195 ED-702195	D SILICON 1S1555V-TP3 D SILICON 1S1555V-TP3			2-D803 2-D804	ED-702195 ED-702195	D SILICON 1S1555V-TP3 D SILICON 1S1555V-TP3
2-D305	ED-702195	D SILICON 1S1555V-TP3			2-D805	ED-702195	D SILICON 1S1555V-TP3
2-D306	ED-702195	D SILICON 1S1555V-TP3			2-D806	ED-702195	D SILICON 1S1555V-TP3
2-D307 2-D308	ED-702195	D SILICON 1S1555V-TP3 D SILICON 1S1555V-TP3			2-D807 2-D808	ED-702195 ED-702195	D SILIOCN 1S1555V-TP3 D SILICON 1S1555V-TP3
2-D309	ED-702195	D SILICON 1S1555V-TP3			2-D809	ED-702195	D SILICON 1S1555V-TP3
2-D310	ED-702195	D SILICON 1S1555V-TP3			2-D810	ED-702195	D SILICON 1S1555V-TP3
2-D311 2-D312	ED-702195 ED-709426	D SILICON 1S1555V-TP3 D ZENER WZ042			2-D811 2-D812	ED-702195 ED-702195	D SILICON 1S1555V-TP3 D SILICON 1S1555V-TP3
2-D312 2-D313	ED-709426	D ZENER WZ042			2-D813	ED-702195	D SILICON 1S1555V-TP3
2-D455	ED-702195	D SILICON 1S1555V-TP3			2-D814	ED-702195	D SILICON 1S1555V-TP3
2-D456	ED-702195	D SILICON 1S1555V-TP3			2-D815 2-D816	ED-702195 ED-702195	D SILICON 1S1555V-TP3 D SILICON 1S1555V-TP3
2-D481 2-D482	ED-702195 ED-702195	D SILICON 1S1555V-TP3 D SILICON 1S1555V-TP3			2-D816 2-D817	ED-702195 ED-702195	D SILICON 1S1555V-TP3
2-D702	ED-702236	D SILICON 1S1553V	. •		2-D818	ED-702195	D SILICON 1S1555V-TP3
2-D703	ED-702236	D SILICON 1S1553V			2-D819	ED-702195 ED-306724	D SILICON 1S1555V-TP3 D SILICON S5277B 100/1.0A
2-D704 2-S26	ED-702236 ES-709433	D SILICON 1S1553V SW PUSH 4 THROW			2-D820 2-D821	ED-306724 ED-306724	D SILICON \$5277B 100/1.0A D SILICON \$5277B 100/1.0A
2-S27	ES-709438	SW PUSH 4 THROW			2-D822	ED-322809	D ZENER H WZ-081
	EV-703279	R S-FIX 503			2-D826	ED-702195	D SILICON 1S1555V-TP3
	EV-703279 EV-703298	R S-FIX 503 R S-FIX 103			2-D827 2-D828	ED-702195 ED-702195	D SILICON 1S1555V-TP3 D SILICON 1S1555V-TP3
	EV-703298	R S-FIX 103			2-D829	ED-702195	D SILICON 1S1555V-TP3
2-L301	ER-709423	FILTER DOLBY			2-D830	ED-702195	D SILICON 1S1555V-TP3
·				PARTS	LIST FD-1 -		

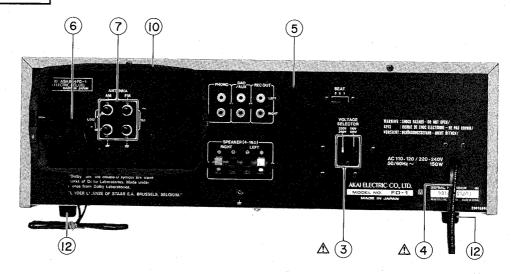
ARD IC NJM4558D JACK 6.5ST RD (A) SW SLIDE RD (B) SW PUSH D ZENER H WZ-177 R OMF H SNP FS 2W 102J	3-L105 3-L106 3-L201 3-LC201 3-LC202 3-IT201 3-IT202 3-CF201 3-CF202 3-TC1 3-VR201	EO-709405 EO-711435 EO-741909 EO-709409 EO-709409 BT-709406 BT-709407 ER-709408	AF CHOKE COIL AC-3750 COIL MPX COIL MPX TRANS IFT AM-M-CE TRANS IFT FM-D FILTER CE FILTER CE C S-FIX
IC NJM4558D JACK 6.5ST RD (A) SW SLIDE RD (B) SW PUSH D ZENER H WZ-177 R OMF H SNP FS 2W 102J	3-L106 3-L201 3-LC201 3-LC202 3-IT201 3-IT202 3-CF201 3-CF202 3-TC1 3-VR201	EO-711435 EO-741909 EO-709409 EO-709409 BT-709406 BT-709407 ER-709408 ER-709408 EC-749457	COIL OSC MW AF CHOKE COIL AC-3750 COIL MPX COIL MPX TRANS IFT AM-M-CE TRANS IFT FM-D FILTER CE FILTER CE C S-FIX
JACK 6.5ST RD (A) SW SLIDE RD (B) SW PUSH D ZENER H WZ-177 R OMF H SNP FS 2W 102J	3-L201 3-LC201 3-LC202 3-IT201 3-IT202 3-CF201 3-CF202 3-TC1 3-VR201	EO-741909 EO-709409 EO-709409 BT-709406 BT-709407 ER-709408 ER-709408 EC-749457	AF CHOKE COIL AC-3750 COIL MPX COIL MPX TRANS IFT AM-M-CE TRANS IFT FM-D FILTER CE FILTER CE C S-FIX
RD (A) SW SLIDE RD (B) SW PUSH D ZENER H WZ-177 R OMF H SNP FS 2W 102J	3-LC201 3-LC202 3-IT201 3-IT202 3-CF201 3-CF202 3-TC1	EO-709409 EO-709409 BT-709406 BT-709407 ER-709408 ER-709408 EC-749457	COIL MPX COIL MPX TRANS IFT AM-M-CE TRANS IFT FM-D FILTER CE FILTER CE C S-FIX
SW SLIDE RD (B) SW PUSH D ZENER H WZ-177 R OMF H SNP FS 2W 102J	3-LC202 3-IT201 3-IT202 3-CF201 3-CF202 3-TC1 3-VR201	EO-709409 BT-709406 BT-709407 ER-709408 ER-709408 EC-749457	COIL MPX TRANS IFT AM-M-CE TRANS IFT FM-D FILTER CE FILTER CE C S-FIX
SW SLIDE RD (B) SW PUSH D ZENER H WZ-177 R OMF H SNP FS 2W 102J	3-IT201 3-IT202 3-CF201 3-CF202 3-TC1 3-VR201	BT-709406 BT-709407 ER-709408 ER-709408 EC-749457	TRANS IFT AM-M-CE TRANS IFT FM-D FILTER CE FILTER CE C S-FIX
RD (B) SW PUSH D ZENER H WZ-177 R OMF H SNP FS 2W 102J	3-IT202 3-CF201 3-CF202 3-TC1 3-VR201	BT-709407 ER-709408 ER-709408 EC-749457	TRANS IFT FM-D FILTER CE FILTER CE C S-FIX
SW PUSH D ZENER H WZ-177 R OMF H SNP FS 2W 102J	3-CF201 3-CF202 3-TC1 3-VR201	ER-709408 ER-709408 EC-749457	FILTER CE FILTER CE C S-FIX
SW PUSH D ZENER H WZ-177 R OMF H SNP FS 2W 102J	3-CF202 3-TC1 3-VR201	ER-709408 EC-749457	FILTER CE C S-FIX
D ZENER H WZ-177 R OMF H SNP FS 2W 102J	3-TC1 3-VR201	EC-749457	C S-FIX
R OMF H SNP FS 2W 102J	3-VR201		
		EV-706603	R S-FIX 103
TER CROARS			
NE P.C BOARD	3-VR202	EV-703299	SEMI-FIXED/VOL. 500 OHMS
JACK 6.5ST	3-VR601	EV-703299	SEMI-FIXED/VOL. 500 OHMS
R OMF H SNP FS 2W 151J	3-X1	EO-709414	OSC X'TAL
R OMF H SNP FS 2W 151J	3-FL1	EM-709415	IND FL FIP7A8S
	3-R 101	ER-706608	R OMF 1W 331
P.C BOARD	3-R220	ER-706608	R OMF 1W 331
VR SLIDE 45W 204	3-R230	ER-701107	R OMF 1W 151J
, it 52122 is it 20 i	3-R259	ER-704152	⚠ R FUSE 1/4W 220J
DARD	3-R269	ER-704152	⚠ R FUSE 1/4W 220J
	3-R 601	ER-711438	R COMP 153 7P
	3-R602	ER-711439	R COMP 183 7P
RD	3-R 603	ER-711440	R COMP 223 7P
	3-R632	ER-306961	R OMF H SNP FS 2W 151J
	3-2	EE-709403	FM TUNER
•	OARD JACK US6P RD TERMINAL 4P	3-R259 OARD JACK US6P 3-R601 3-R602 RD TERMINAL 4P 3-R259 3-R693 3-R693 3-R693	3-R259 ER-704152 OARD 3-R269 ER-704152 JACK US6P 3-R601 ER-711438 3-R602 ER-711439 RD 3-R603 ER-711440 TERMINAL 4P 3-R632 ER-306961

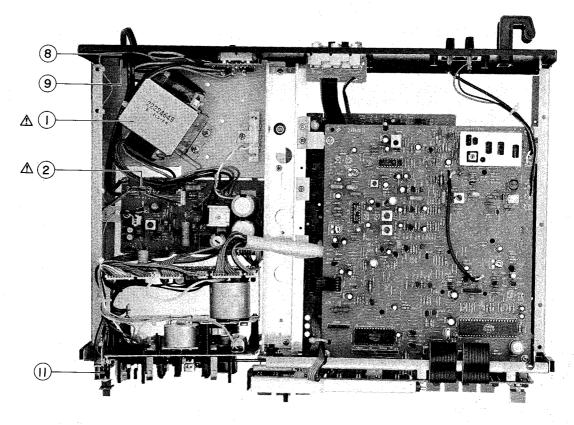
3. RADIO P.C BOARD BLOCK

REF. PARTS NO. DESCRIPTION REF. NO. DESCRIPTION NO.					T. CO.	INIKOL I	C DOARD BLOCK
A-71143	REF. NO.	PARTS NO.	DESCRIPTION			PARTS NO.	DESCRIPTION
A-71143	3-1 U	BA-711430	PC RADIO BLK FD-1 (U.E.S)				
## RADIO P.C BOARD 3-IC201 E1-701061					4-S1	ES-709418	SW KEY
3-1-	0.10			1	4-S2	ES-709418	SW KEY
3-1C-201 E1-703099 IC ANT-223		RADIO P.C	BOARD		4-S3	ES-709418	SW KEY
3-1C202 E1-701061					4-S4	ES-709418	SW KEY
3-1C602					4-S5	ES-709418	SW KEY
3-1C602	3-IC601	EI-344436	IC TC9147P		4-S6	ES-709418	SW KEY
3-TR101 ET-709400 3-TR201 ET-702700 3-TR201 ET-702700 3-TR202 ET-330225 3-TR203 ET-330225 3-TR203 ET-330225 3-TR203 ET-330225 3-TR203 ET-330225 3-TR203 ET-330225 3-TR204 ET-330225 3-TR205 ET-330225 3-TR206 ET-330225 3-TR206 ET-330225 3-TR206 ET-330225 3-TR206 ET-330225 3-TR206 ET-341903 3-TR207 ET-741903 3-TR208 ET-741903 3-TR211 ET-711433 3-TR211 ET-711433 3-TR212 ET-702700 3-TR601 ET-330225 3-TR 25C1815 BL 3-TR213 ET-702700 3-TR605 ET-330225 3-TR 25C1815 BL 4-S20 3-TR213 ET-702700 3-TR606 ET-330225 3-TR 25C1815 BL 4-S20 3-TR606 ET-330225 3-TR 25C1815 BL 4-D204 3-TR605 ET-330867 3-TR606 ET-308867 3-TR 25C1815 BL 4-D304 4-D304 4-D451 4-D451 4-D451 4-D451 4-D452 4-D451 4-D452 4-D451 4-D452 4-D45	3-IC602	EI-344437			4-S7	ES-709418	SW KEY
3-TR201 ET-702700 3-TR202 ET-330225 TR 2SC1815 BL 3-TR203 ET-330225 TR 2SC1815 BL 3-TR204 ET-330225 TR 2SC1815 BL 3-TR204 ET-330225 TR 2SC1815 BL 3-TR205 ET-330225 TR 2SC1815 BL 3-TR206 ET-330225 TR 2SC1815 BL 3-TR206 ET-330225 TR 2SC1815 BL 3-TR206 ET-330225 TR 2SC1815 BL 3-TR207 ET-741903 TR 2SA1015-GR 3-TR209 ET-330225 TR 2SC1815 BL 3-TR209 ET-330225 TR 2SC1815 BL 3-TR210 ET-741903 TR 2SA1015-GR 4-S11 ES-709418 SW KEY SW K	3-IC603	EI-344438	IC TD6104P		4-S8	ES-709418	SW KEY
3-TR202 ET-330225 TR 2SC1815 BL 4-S12 ES-709418 SW KEY 3-TR203 ET-330225 TR 2SC1815 BL 4-S13 ES-709418 SW KEY 3-TR205 ET-330225 TR 2SC1815 BL 4-S14 ES-709418 SW KEY 3-TR206 ET-330225 TR 2SC1815 BL 4-S15 ES-709418 SW KEY 3-TR206 ET-330225 TR 2SC1815 BL 4-S16 ES-709418 SW KEY 3-TR207 ET-741903 TR 2SA1015-GR 4-S17 ES-709418 SW KEY 3-TR208 ET-741903 TR 2SA1015-GR 4-S17 ES-709418 SW KEY 3-TR208 ET-741903 TR 2SA1015-GR 4-S18 ES-709418 SW KEY 3-TR208 ET-741902 TR 2SC1815 BL 4-S16 ES-709418 SW KEY 3-TR210 ET-330225 TR 2SC1815 BL 4-S18 ES-709418 SW KEY 3-TR210 ET-330225 TR 2SC1815 BL 4-S19 ES-709418 SW KEY 3-TR211 ET-711433 TR 2SC2236Y 4-S18 ES-709418 SW KEY 3-TR213 ET-702700 TR 2SC380TM O 4-S21 ES-709417 SW PUSH 3-TR602 ET-3307604 TR FET 2SK246 Y 4-D205 ED-703310 D LED LN417YP 3-TR603 ET-330225 TR 2SC1815 BL 4-D304 ED-70131 D LED LN417YP 3-TR603 ET-330225 TR 2SC1815 BL 4-D304 ED-70131 D LED LN517FP 3-TR605 ET-308867 TR 2SA1015 O,Y,GR 4-D451 ED-709421 D LED AA55278-1 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 4-D453 ED-709421 D LED AA55278-1 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 4-D454 ED-709421 D LED AA55278-1 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-709421 D LED AA55278-1 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-709421 D LED AA55278-1 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-709421 D LED AA55278-1 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-709421 D LED AA55278-1 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-709421 D LED AA55278-1 3-D201 ED-709401 D VARACTOR KV123622 4-D609 ED-709421 D LED AA55278-1 3-D202 ED-709441 D LED SG238W 4-D611 ED-709421 D LED AA55278-1 3-D203 ED-709441 D LED SG238W 4-D614 ED-709421 D LED AA55278-1 3-D204 ED-702195 D SILICON IS1555V-TP3 4-D616 ED-709421 D LED AA55278-1 3-D206 ED-702195 D SILICON IS1555V-TP3 4-D616 ED-709421 D LED AA55278-1 3-D206 ED-702195 D SILICON IS1555V-TP3 4-D616 ED-709411 D LED LN-317GP 3-D603 ED-306724 D SILICON IS1555V-TP3 4-D616 ED-709141 D LED LN-317GP 3-D603 ED-702195 D SILICON IS1555V-TP3 4-D616 ED-709141 D LED LN-317GP 3-D603 ED-702195 D SILICON IS1555V-TP	3-TR101	ET-709400	TR 2SK192A-Y		4-S10	ES-709418	SW KEY
3-TR203 ET-330225 TR 2SC1815 BL	3-TR201	ET-702700	TR 2SC380TM O		4-S11	ES-709418	SW KEY
3-TR203 ET-330225 TR 2SC1815 BL 3-TR205 ET-330225 TR 2SC1815 BL 3-TR206 ET-330225 TR 2SC1815 BL 3-TR207 ET-741903 TR 2SA1015-GR 3-TR208 ET-741903 TR 2SA1015-GR 3-TR210 ET-330225 TR 2SC1815 BL 3-TR210 ET-330225 TR 2SC1815 BL 3-TR210 ET-330225 TR 2SC1815 BL 3-TR211 ET-711433 TR 2SC2236Y 3-TR212 ET-741902 TR 2SC1815-BL 3-TR213 ET-702700 TR 2SC380TM O 3-TR602 ET-337604 TR FET 2SK246 Y 3-TR603 ET-330225 TR 2SC1815 BL 3-TR605 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 DR 2SA105 O,Y,GR 4-D601 ED-709410 DLED AA55278-1 3-D201 ED-709401 DVARACTOR KV1236Z2 4-D609 ED-709411 DLED AA55278-1 3-D206 ED-702195 D SILICON IS1555V-TP3 3-D206 ED-702195 D SILICON IS1555V-TP3 3-D206 ED-702195 D SILICON IS1555V-TP3 3-D601 ED-702195 D SILICON IS1555V-TP3 3-D602 ED-702195 D SILICON IS1555V-TP3 3-D604 ED-702195 D SILICON IS1555V-TP3 3-D605 ED-702195 D SILICON IS1555V-TP3 3-D606 ED-702195 D SILICON IS1555V-TP3 3-D607 ED-702195 D SILICON IS1555V-TP3 3-D608 ED-702195 D SILICON IS1555V-TP3 3-D609 ED-7042194 DLE	3-TR202	ET-330225	TR 2SC1815 BL		4-S12	ES-709418	SW KEY
3-TR204 E1-330225 TR 2SC1815 BL	3-TR203	ET-330225	TR 2SC1815 BL		4-S13	ES-709418	SE KEY
3-TR206 ET-330225 TR 2SC1815 BL 4-S16 ES-709418 SW KEY 3-TR207 ET-741903 TR 2SA1015-GR 4-S17 ES-709418 SW KEY 3-TR209 ET-330225 TR 2SC1815 BL 4-S19 ES-709418 SW KEY 3-TR210 ET-330225 TR 2SC1815 BL 4-S20 ES-709418 SW KEY 3-TR210 ET-330225 TR 2SC1815 BL 4-S20 ES-709418 SW KEY 3-TR210 ET-71493 TR 2SC2236Y 4-S21 ES-709417 SW PUSH 3-TR212 ET-741902 TR 2SC1815-BL 4-S20 ES-709417 SW PUSH 3-TR213 ET-702700 TR 2SC380TM O 4-S23 ES-709417 SW PUSH 3-TR213 ET-702700 TR 2SC380TM O 4-S23 ES-709417 SW PUSH 3-TR603 ET-330225 TR 2SC1815 BL 4-D205 ED-703310 D LED LN417YP 3-TR603 ET-330225 TR 2SC1815 BL 4-D205 ED-703310 D LED LN417YP 3-TR604 ET-330225 TR 2SC1815 BL 4-D304 ED-701131 D LED LN-317GP 3-TR606 ET-308867 TR 2SC1815 BL 4-D451 ED-709321 D LED LN417YP 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 4-D452 ED-709421 D LED AA5527S-1 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 4-D453 ED-709421 D LED AA5527S-1 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 4-D453 ED-709421 D LED AA5527S-1 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 4-D453 ED-709421 D LED AA5527S-1 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-703243 D LED LN217RP 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-709421 D LED AA5527S-1 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-709421 D LED AA5527S-1 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-709421 D LED AA5527S-1 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-709421 D LED AA5527S-1 3-TR609 ED-709410 D VARACTOR KV123672 4-D609 ED-709421 D LED AA5527S-1 3-D201 ED-709401 D VARACTOR KV123672 4-D609 ED-709421 D LED AA5527S-1 3-D202 ED-709441 D LED SG238W 4-D611 ED-709421 D LED AA5527S-1 3-D203 ED-30708 D ZENER H WZ-061 4-D616 ED-709421 D LED AA5527S-1 3-D204 ED-702195 D SILICON IS1555V-TP3 4-D610 ED-709421 D LED AA5527S-1 3-D208 ED-702195 D SILICON IS1555V-TP3 4-D610 ED-709421 D LED AA5527S-1 3-D208 ED-702195 D SILICON IS1555V-TP3 4-D610 ED-701131 D LED LN-317GP 3-D602 ED-306724 D SILICON IS1555V-TP3 4-D610 ED-701131 D LED LN-317GP 3-D602 ED-306724 D SILICON IS1555V-TP3 4-D605 ED-701131 D LED LN-317GP 3-D606 ED-702195 D SILICON IS1555V-TP3 4-D606 ED-70	3-TR204	ET-330225	TR 2SC1815 BL		4-S14	ES-709418	SW KEY
3-TR207 ET-741903 TR 2SA1015-GR 4-S17 ES-709418 SE KEY 3-TR208 ET-741903 TR 2SA1015-GR 4-S18 ES-709418 SW KEY 3-TR210 ET-330225 TR 2SC1815 BL 4-S10 ES-709418 SW KEY 3-TR210 ET-330225 TR 2SC1815 BL 4-S20 ES-709418 SW KEY 3-TR211 ET-711433 TR 2SC2236Y 4-S21 ES-709417 SW PUSH 3-TR213 ET-702700 TR 2SC1815-BL 4-S22 ES-709417 SW PUSH 3-TR601 ET-330225 TR 2SC1815-BL 4-D204 ED-703310 D LED LN417YP 3-TR602 ET-33764 TR 2SC1815-BL 4-D204 ED-703310 D LED LN417YP 3-TR603 ET-330225 TR 2SC1815-BL 4-D204 ED-703310 D LED LN417YP 3-TR604 ET-330225 TR 2SC1815-BL 4-D451 ED-709421 D LED AA5527S-1 3-TR605 ET-308867 TR 2SA1015-O,Y,GR 4-D452 ED-709421 D LED AA5527S-1 3-TR606 ET-308867 TR 2SA1015-O,Y,GR 4-D453 ED-709421 D LED AA5527S-1 3-TR606 ET-308867 TR 2SA1015-O,Y,GR 4-D607 ED-709421 D LED AA5527S-1 3-TR609 ET-308867 TR 2SA1015-O,Y,GR 4-D606 ED-703243 D LED LN217RP 3-TR609 ET-308867 TR 2SA1015-O,Y,GR 4-D606 ED-703243 D LED LN217RP 3-TR609 ET-308867 TR 2SA1015-O,Y,GR 4-D606 ED-703241 D LED AA5527S-1 3-TR609 ET-308867 TR 2SA1015-O,Y,GR 4-D606 ED-703241 D LED AA5527S-1 3-TR609 ET-308867 TR 2SA1015-O,Y,GR 4-D606 ED-703241 D LED AA5527S-1 3-D201 ED-709401 D VARACTOR KV1236Z2 4-D609 ED-709421 D LED AA5527S-1 3-D202 ED-702195 D SILICON IS1555V-TP3 4-D610 ED-709421 D LED AA5527S-1 3-D203 ED-307088 D ZENER H WZ-061 4-D612 ED-709421 D LED AA5527S-1 3-D204 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED AA5527S-1 3-D206 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED AA5527S-1 3-D208 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED AA5527S-1 3-D209 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED AA5527S-1 3-D200 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED AA5527S-1 3-D200 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED AA5527S-1 3-D200 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED LN-317GP 3-D603 ED-306724 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED LN-317GP 3-D604 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709420 D LED LN-317GP 3-D605 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709420 D LED	3-TR205	ET-330225	TR 2SC1815 BL		4-S15	ES-709418	SW KEY
3-TR208 ET-741903 TR 2SA1015-GR 3-TR209 ET-330225 TR 2SC1815 BL 3-TR210 ET-330225 TR 2SC1815 BL 3-TR211 ET-711433 TR 2SC2236Y 3-TR211 ET-711433 TR 2SC2236Y 3-TR212 ET-741902 TR 2SC1815-BL 3-TR213 ET-702700 TR 2SC380TM O 3-TR601 ET-330225 TR 2SC1815-BL 3-TR602 ET-330225 TR 2SC1815-BL 3-TR603 ET-330225 TR 2SC1815-BL 3-TR604 ET-330225 TR 2SC1815-BL 3-TR605 ET-308867 TR 2SC1815-BL 3-TR606 ET-308867 TR 2SC1815-DL 3-TR606 ET-308867 TR 2SC1815-DL 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015-O,Y,GR 3-TR609 ET-308867 TR 2	3-TR206	ET-330225	TR 2SC1815 BL	* .	4-S16	ES-709418	SW KEY
3-TR209 ET-330225 TR 2SC1815 BL 3-TR210 ET-330225 TR 2SC1815 BL 3-TR211 ET-711433 TR 2SC2236Y 3-TR212 ET-741902 TR 2SC1815-BL 3-TR213 ET-702700 TR 2SC380TM O 3-TR213 ET-702700 TR 2SC380TM O 3-TR601 ET-330225 TR 2SC1815 BL 3-TR601 ET-330225 TR 2SC1815 BL 3-TR602 ET-337604 TR FET 2SK246 Y 3-TR603 ET-330225 TR 2SC1815 BL 3-TR604 ET-330225 TR 2SC1815 BL 3-TR605 ET-330225 TR 2SC1815 BL 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR600 ET-30825 TR 2SC1815 BL 3-D201 ED-702195 D SILICON IS1555V-TP3 3-D202 ED-709441 D LED SG238W 4-D607 ED-709421 D LED AA5527S-1 3-D208 ED-702195 D SILICON IS1555V-TP3 3-D208 ED-702195 D SILICON IS1555V-TP3 3-D603 ED-306724 D SILICON IS1555V-TP3 3-D603 ED-306724 D SILICON IS1555V-TP3 3-D604 ED-702195 D SILICON IS1555V-TP3 3-D604 ED-702195 D SILICON IS1555V-TP3 3-D605 ED-702195 D SILICON IS1555V-TP3 3-D6064 ED-702195 D SILICON IS1555V-TP3 3-D607 ED-702195 D SILICON IS1555V-TP3 3-D608 ED-702195 D SILICON IS1555V-TP3 3-D609 ED-702195 D SILICON	3-TR207	ET-741903	TR 2SA1015-GR		4-S17	ES-709418	SE KEY
3-TR210 ET-330225 TR 2SC1815 BL 3-TR211 ET-711433 TR 2SC2236Y 4-S21 ES-709417 SW PUSH 3-TR212 ET-741902 TR 2SC1815-BL 3-TR213 ET-702700 TR 2SC380TM O 3-TR601 ET-330225 TR 2SC1815 BL 3-TR602 ET-337604 TR FET 2SK246 Y 3-TR603 ET-330225 TR 2SC1815 BL 3-TR604 ET-330225 TR 2SC1815 BL 3-TR605 ET-330225 TR 2SC1815 BL 3-TR606 ET-308867 TR 2SC1815 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-30867 TR 2SA1015 O,Y,GR 3-TR609 ET-	3-TR208	ET-741903	TR 2SA1015-GR		4-S18	ES-709418	SW KEY
3-TR211 ET-711433 TR 2SC2236Y 3-TR212 ET-741902 TR 2SC1815-BL 3-TR213 ET-702700 TR 2SC380TM O 3-TR601 ET-330225 TR 2SC1815 BL 3-TR602 ET-337604 TR FET 2SK246 Y 3-TR603 ET-330225 TR 2SC1815 BL 3-TR604 ET-330225 TR 2SC1815 BL 3-TR605 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-30225 TR 2SC1815 BL 3-D201 ED-702195 D SILICON IS1555V-TP3 3-D202 ED-709441 D LED AA5527S-1 3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON IS1555V-TP3 3-D208 ED-702195 D SILICON IS1555V-TP3 3-D601 ED-702195 D SILICON IS1555V-TP3 3-D602 ED-306724 D SILICON IS1555V-TP3 3-D603 ED-306724 D SILICON IS1555V-TP3 3-D604 ED-702195 D SILICON IS1555V-TP3 3-D605 ED-702195 D SILICON IS1555V-TP3 3-D606 ED-702195 D SILICON IS1555V-TP3 3-D607 ED-702195 D SILICON IS1555V-TP3 3-D608 ED-702195 D SILICON IS1555V-TP3 3-D609 ED-70	3-TR209	ET-330225	TR 2SC1815 BL		4-S19	ES-709418	SW KEY
3-TR212 ET-741902 TR 2SC1815-BL 4-S22 ES-709417 SW PUSH 3-TR213 ET-702700 TR 2SC380TM O 4-S23 ES-709416 SW PUSH 3-TR601 ET-330225 TR 2SC1815 BL 4-D204 ED-703310 D LED LN417YP 3-TR602 ET-337604 TR FET 25K246 Y 4-D205 ED-703310 D LED LN417YP 3-TR603 ET-330225 TR 2SC1815 BL 4-D304 ED-701131 D LED LN-317GP 3-TR604 ET-330225 TR 2SC1815 BL 4-D451 ED-709421 D LED AA5527S-1 3-TR605 ET-308867 TR 2SA1015 O,Y,GR 4-D452 ED-709421 D LED AA5527S-1 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 4-D453 ED-709421 D LED AA5527S-1 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 4-D454 ED-709421 D LED AA5527S-1 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 4-D656 ED-703243 D LED LN217RP 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D666 ED-703243 D LED LN217RP 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-703243 D LED LN217RP 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-703243 D LED LN217RP 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 4-D606 ED-709421 D LED AA5527S-1 3-D201 ED-709401 D VARACTOR KV1236Z2 4-D609 ED-709421 D LED AA5527S-1 3-D201 ED-709401 D VARACTOR KV1236Z2 4-D609 ED-709421 D LED AA5527S-1 3-D202 ED-709441 D LED SG238W 4-D611 ED-709421 D LED AA5527S-1 3-D206 ED-702195 D SILICON IS1555V-TP3 4-D610 ED-709421 D LED AA5527S-1 3-D206 ED-702195 D SILICON IS1555V-TP3 4-D613 ED-709421 D LED AA5527S-1 3-D206 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED AA5527S-1 3-D208 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED AA5527S-1 3-D208 ED-702195 D SILICON IS1555V-TP3 4-D614 ED-709421 D LED AA5527S-1 3-D603 ED-306724 D SILICON IS1555V-TP3 4-D706 ED-701131 D LED LN-317GP 3-D604 ED-702195 D SILICON IS1555V-TP3 4-D706 ED-701131 D LED LN-317GP 3-D604 ED-702195 D SILICON IS1555V-TP3 4-D605 ED-702195 D SILICON IS1555V-TP3 4-D825 ED-709420 D LED LN-317GP 3-D604 ED-702195 D SILICON IS1555V-TP3 4-D605 ED-702195 D SILICON IS1555V-TP3 4-D605 ED-702195 D SILICON IS1555V-TP3 4-D606	3-TR210	ET-330225	TR 2SC1815 BL		4-S20	ES-709418	SW KEY
3-TR213 ET-702700 TR 2SC380TM O 3-TR601 ET-330225 TR 2SC1815 BL 3-TR602 ET-337604 TR FET 2SK246 Y 3-TR603 ET-330225 TR 2SC1815 BL 3-TR604 ET-330225 TR 2SC1815 BL 3-TR604 ET-330225 TR 2SC1815 BL 3-TR605 ET-308867 TR 2SC1815 BL 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR600 ET-308867 TR 2SA1015 O,Y,GR 3-TR601 ET-30225 TR 2SC1815 BL 3-D201 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-709401 D VARACTOR KV1236Z2 3-D202 ED-709441 D LED SG238W 4-D608 ED-709421 D LED AA5527S-1 3-D202 ED-709441 D LED SG238W 4-D611 ED-709421 D LED AA5527S-1 3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON IS1555V-TP3 3-D207 ED-702195 D SILICON IS1555V-TP3 3-D208 ED-702195 D SILICON IS1555V-TP3 3-D605 ED-702195 D SILICON SS277B 100/1.0A 3-D603 ED-306724 D SILICON SS277B 100/1.0A 3-D604 ED-702195 D SILICON IS1555V-TP3 3-D605 ED-702195 D SILICON IS1555V-TP3 3-D6064 ED-702195 D SILICON IS1555V-TP3 3-D607 ED-702195 D SILICON IS1555V-TP3 3-D608 ED-702195 D SILICON SS277B 100/1.0A 3-D609 ED-702195 D SILICON IS1555V-TP3 3-D609 ED-702195 D SILICON IS15	3-TR211	ET-711433	TR 2SC2236Y		4-S21	ES-709417	SW PUSH
3-TR601 ET-330225 TR 2SC1815 BL 3-TR602 ET-337604 TR FET 2SK246 Y 3-TR603 ET-330225 TR 2SC1815 BL 3-TR604 ET-330225 TR 2SC1815 BL 3-TR604 ET-330225 TR 2SC1815 BL 3-TR605 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR610 ET-330225 TR 2SC1815 BL 3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-709401 D VARACTOR KV1236Z2 4-D608 ED-709421 D LED AA5527S-1 3-D201 ED-702195 D SILICON 1S1555V-TP3 3-D203 ED-327098 D ZENER H WZ-061 3-D204 ED-702195 D SILICON 1S1555V-TP3 3-D205 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON 1S1555V-TP3 3-D607 ED-702195 D SILICON 1S1555V-TP3 3-D608 ED-702195 D SILICON 1S1555V-TP3 3-D609 ED-306724 D SILICON 1S1555V-TP3 3-D6004 ED-702195 D SILICON 1S1555V-TP3 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-306724 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON 1S1555V-TP3 3-D607 ED-702195 D SILICON 1S1555V-TP3 3-D608 ED-702195 D SILICON 1S1555V-TP3 3-D609 ED-702195 D SILICON 1S1555V-TP	3-TR212	ET-741902	TR 2SC1815-BL		4-S22	ES-709417	SW PUSH
3-TR602 ET-337604 TR FET 2SK246 Y 3-TR603 ET-330225 TR 2SC1815 BL 3-TR604 ET-330225 TR 2SC1815 BL 3-TR605 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-30825 TR 2SC1815 BL 3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-702195 D SILICON 1S1555V-TP3 3-D202 ED-709441 D LED SG238W 4-D611 ED-709421 D LED AA5527S-1 3-D203 ED-327098 D ZENER H WZ-061 3-D204 ED-702195 D SILICON 1S1555V-TP3 3-D205 ED-702195 D SILICON 1S1555V-TP3 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S277B 100/1.0A 3-D603 ED-306724 D SILICON S277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON 1S1555V-TP3 3-D607 ED-702195 D SILICON 1S1555V-TP3 3-D608 ED-702195 D SILICON 1S1555V-TP3 3-D609 ED-702195 D SILICON 1S1555V-TP3 3-D6004 ED-702195 D SILICON 1S1555V-TP3 3-D6005 ED-702195 D SILICON 1S1555V-TP3 3-D6006 ED-702195 D SILICON 1S1555V-TP3 3-D6006 ED-702195 D SILICON 1S1555V-TP3 3-D6007 ED-702195 D SILICON 1S1555V-TP3 3-D6008 ED-702195 D SILICON 1S1555V-TP3 3-D6009 ED-702195 D SILICON 1S1555V-TP3 3-D6009 ED-702195 D SILICON 1S1555V-TP3 3-D6000 ED-7022246 COIL FM-CHOKE	3-TR213	ET-702700	TR 2SC380TM O		4-S23	ES-709416	SW PUSH
3-TR603 ET-330225 TR 2SC1815 BL 3-TR604 ET-330225 TR 2SC1815 BL 3-TR605 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR610 ET-308225 TR 2SC1815 BL 3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-709401 D VARACTOR KV1236Z2 3-D202 ED-709441 D LED SG238W 3-D203 ED-327098 D ZENER H WZ-061 3-D204 ED-702195 D SILICON 1S1555V-TP3 3-D205 ED-702195 D SILICON 1S1555V-TP3 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON 1S1555V-TP3 3-D607 ED-702195 D SILICON 1S1555V-TP3 3-D608 ED-702195 D SILICON 1S1555V-TP3 3-D609 ED-702195 D SILICON 1S1555V-TP3	3-TR601	ET-330225	TR 2SC1815 BL		4-D204	ED-703310	D LED LN417YP
3-TR604 ET-330225 TR 2SC1815 BL 3-TR605 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SC1815 BL 3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-709401 D VARACTOR KV1236Z2 3-D202 ED-709401 D LED SG238W 4-D610 ED-709421 D LED AA5527S-1 3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON 1S1555V-TP3 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON 1S1555V-TP3 3-D607 ED-702195 D SILICON 1S1555V-TP3 3-D608 ED-702195 D SILICON 1S1555V-TP3 3-D609 ED-702195 D SILICON S5277B 100/1.0A 3-D600 ED-702195 D SILICON 1S1555V-TP3 3-D600	3-TR 602	ET-337604	TR FET 2SK246 Y	4.1	4-D205	ED-703310	D LED LN417YP
3-TR605 ET-308867 TR 2SA1015 O,Y,GR 3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR610 ET-30225 TR 2SC1815 BL 3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-702195 D SILICON 1S1555V-TP3 3-D202 ED-709441 D LED SG238W 4-D611 ED-709421 D LED AA5527S-1 3-D203 ED-327098 D ZENER H WZ-061 3-D204 ED-702195 D SILICON 1S1555V-TP3 3-D205 ED-702195 D SILICON 1S1555V-TP3 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON 1S1555V-TP3 3-D607 ED-702195 D SILICON 1S1555V-TP3 3-D608 ED-702195 D SILICON 1S1555V-TP3 3-D609 ED-702195 D SILICON	3-TR603	ET-330225	TR 2SC1815 BL		4-D304	ED-701131	D LED LN-317GP
3-TR606 ET-308867 TR 2SA1015 O,Y,GR 3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR610 ET-330225 TR 2SC1815 BL 3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-709401 D VARACTOR KV1236Z2 3-D202 ED-709441 D LED SG238W 4-D610 ED-709421 D LED AA5527S-1 3-D202 ED-709441 D LED SG238W 4-D610 ED-709421 D LED AA5527S-1 3-D203 ED-327098 D ZENER H WZ-061 3-D204 ED-702195 D SILICON 1S1555V-TP3 3-D205 ED-702195 D SILICON 1S1555V-TP3 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON 1S1555V-TP3 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON 1S1555V-TP3 3-D607 ED-702195 D SILICON 1S1555V-TP3 3-D608 ED-702195 D SILICON 1S1555V-TP3 3-D609 ED-702195 D SILICON 1S1555V-TP3 3	3-TR604	ET-330225	TR 2SC1815 BL	1	4-D451	ED-709421	D LED AA5527S-1
3-TR607 ET-702700 TR 2SC380TM O 3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR610 ET-330225 TR 2SC1815 BL 3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-702195 D SILICON 1S1555V-TP3 3-D202 ED-709441 D LED SG238W 3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON 1S1555V-TP3 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON 1S1555V-TP3 3-D607 ED-702195 D SILICON 1S1555V-TP3 3-D608 ED-702195 D SILICON 1S1555V-TP3 3-D609 ED-70219	3-TR605	ET-308867	TR 2SA1015 O,Y,GR		4-D452	ED-709421	D LED AA5527S-1
3-TR608 ET-308867 TR 2SA1015 O,Y,GR 3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR610 ET-330225 TR 2SC1815 BL 3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-702195 D SILICON 1S1555V-TP3 3-D202 ED-709441 D LED SG238W 3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON 1S1555V-TP3 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 E	3-TR606	ET-308867	TR 2SA1015 O,Y,GR	:	4-D453	ED-709421	D LED AA5527S-1
3-TR609 ET-308867 TR 2SA1015 O,Y,GR 3-TR610 ET-330225 TR 2SC1815 BL 3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-702195 D SILICON 1S1555V-TP3 3-D202 ED-709441 D LED SG238W 3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON 1S1555V-TP3 3-D607 ED-702195 D SILICON 1S1555V-TP3 4-D826 ED-709420 D LED LN-317GP 4-D827 ED-709420 D LED LN-317GP 4-D828 ED-709420 D LED LN-317GP 4-D829 ED-709420 D LED LN-317GP 4-D829 ED-709420 D LED LN-317GP 4-D829 ED-709420 D LED LN-317GP 4-D820 ED-709420 D LED LN-3	3-TR607	ET-702700	TR 2SC380TM O	İ	4-D454	ED-709421	D LED AA5527S-1
3-TR610 ET-330225 TR 2SC1815 BL 3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-702195 D SILICON 1S1555V-TP3 3-D202 ED-709441 D LED SG238W 3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON S5277B 100/1.0A 4-D706 ED-701131 D LED LN-317GP 4-D823 ED-701124 D LED LN-317GP 4-D824 ED-709420 D LED LN29RP 4-D825 ED-709419 D LED LN29RP 4-D825 ED-709419 D LED LN410YP 4-R708 ER-749298 RS1M-120	3-TR608	ET-308867	TR 2SA1015 O,Y,GR		4-D606	ED-703243	D LED LN217RP
3-D101 ED-709401 D VARACTOR KV1236Z2 3-D201 ED-702195 D SILICON 1S1555V-TP3 3-D202 ED-709441 D LED SG238W 3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON S5277B 100/1.0A 3-D607 ED-702195 D SILICON S5277B 100/1.0A 3-D608 ED-702195 D SILICON 1S1555V-TP3 3-D609 ED-702195 D SILICON S5277B 100/1.0A 3-D609 ED-702195 D SILICON S5277B 100/1.0A 3-D609 ED-702195 D SILICON S5277B 100/1.0A 3-D609 ED-702195 D SILICON S555V-TP3 3-D609 ED-702195 D SILICON S555V-	3-TR609	ET-308867	TR 2SA1015 O,Y,GR		4-D607	ED-709421	D LED AA5527S-1
3-D201 ED-702195 D SILICON 1S1555V-TP3 3-D202 ED-709441 D LED SG238W 3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON S5277B 100/1.0A 3-D607 ED-702195 D SILICON S5277B 100/1.0A 3-D608 ED-702195 D SILICON S5277B 100/1.0A 3-D609 ED-306724 D SILICON S5277B 100/1.0A 3-D609 ED-306724 D SILICON S5277B 100/1.0A 3-D609 ED-702195 D SILICON S5277B 100/1.0A	3-TR610	ET-330225	TR 2SC1815 BL		4-D608	ED-709421	D LED AA5527S-1
3-D202 ED-709441 D LED SG238W 3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D606 ED-702195 D SILICON S5277B 100/1.0A 3-D607 ED-702195 D SILICON S5277B 100/1.0A 3-D608 ED-702195 D SILICON 1S1555V-TP3 3-D609 ED-702195 D SILICON 1S1555V-TP3 4-D826 ED-709420 D LED LN29RP 4-D827 ED-709419 D LED LN410YP 4-D828 ED-709419 D LED LN410YP 4-D829 ER-749298 RS1M-120	3-D101	ED-709401	D VARACTOR KV1236Z2		4-D609		
3-D203 ED-327098 D ZENER H WZ-061 3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON 1S1555V-TP3 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-L102 EO-742246 COIL FM-CHOKE 4-D612 ED-709421 D LED AA5527S-1 4-D613 ED-709421 D LED LN-317GP 4-D705 ED-701131 D LED LN-317GP 4-D706 ED-701131 D LED LN-317GP 4-D706 ED-701131 D LED LN-317GP 4-D823 ED-701124 D LED LN-317GP 4-D824 ED-709420 D LED LN29RP 4-D825 ED-709419 D LED LN29RP 4-D825 ED-709419 D LED LN410YP 4-R708 ER-749298 RSIM-120	3-D201	ED-702195	D SILICON 1S1555V-TP3		4-D610		
3-D206 ED-702195 D SILICON 1S1555V-TP3 3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-L102 EO-742246 COIL FM-CHOKE 4-D613 ED-709421 D LED AA5527S-1 4-D614 ED-709421 D LED LN-317GP 4-D705 ED-701131 D LED LN-317GP 4-D706 ED-701131 D LED LN-317GP 4-D823 ED-701124 D LED LN-317GP 4-D824 ED-701124 D LED LN328GP 4-D825 ED-701124 D LED LN328GP 4-D826 ED-709420 D LED LN29RP 4-D827 ED-709420 D LED LN29RP 4-D828 ED-709419 D LED LN410YP 4-R708 ER-749298 RSIM-120	3-D202	ED-709441	D LED SG238W		4-D611	ED-709421	D LED AA5527S-1
3-D207 ED-702195 D SILICON 1S1555V-TP3 3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON S5277B 100/1.0A 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-L102 EO-742246 COIL FM-CHOKE 4-D614 ED-709421 D LED LN-317GP 4-D704 ED-701131 D LED LN-317GP 4-D706 ED-701131 D LED LN-317GP 4-D823 ED-701124 D LED LN-317GP 4-D824 ED-709420 D LED LN29RP 4-D825 ED-709420 D LED LN29RP 4-D825 ED-709419 D LED LN410YP 4-R708 ER-749298 RS1M-120	3-D203	ED-327098	D ZENER H WZ-061		4-D612		
3-D208 ED-702195 D SILICON 1S1555V-TP3 3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON S5277B 100/1.0A 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-L102 EO-742246 COIL FM-CHOKE 4-D704 ED-701131 D LED LN-317GP 4-D706 ED-701131 D LED LN-317GP 4	3-D206	ED-702195	D SILICON 1S1555V-TP3		4-D613	ED-709421	D LED AA5527S-1
3-D601 ED-702195 D SILICON 1S1555V-TP3 3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-L102 EO-742246 COIL FM-CHOKE 4-D705 ED-701131 D LED LN-317GP 4-D706 ED-701131 D LED LN-317GP 4-D823 ED-701124 D LED LN-317GP 4-D824 ED-709420 D LED LN-317GP 4-D825 ED-709420 D LED LN-317GP 4-D826 ED-709420 D	3-D207	ED-702195	D SILICON 1S1555V-TP3		4-D614		
3-D602 ED-306724 D SILICON S5277B 100/1.0A 3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-L102 EO-742246 COIL FM-CHOKE 4-D706 ED-701131 D LED LN-317GP 4-D823 ED-701124 D LED LN328GP 4-D824 ED-709420 D LED LN29RP 4-D825 ED-709419 D LED LN410YP 4-R708 ER-749298 RS1M-120	3-D208	ED-702195	D SILICON 1S1555V-TP3		4-D704		
3-D603 ED-306724 D SILICON S5277B 100/1.0A 3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-L102 EO-742246 COIL FM-CHOKE 4-D823 ED-701124 D LED LN328GP 4-D824 ED-709420 D LED LN29RP 4-D825 ED-709419 D LED LN410YP 4-R708 ER-749298 RS1M-120	3-D601	ED-702195	D SILICON 1S1555V-TP3		4-D705		
3-D604 ED-702195 D SILICON 1S1555V-TP3 3-D605 ED-702195 D SILICON 1S1555V-TP3 3-L102 EO-742246 COIL FM-CHOKE 4-D824 ED-709420 D LED LN29RP 4-D825 ED-709419 D LED LN410YP 4-R708 ER-749298 RS1M-120	3-D602	ED-306724	D SILICON S5277B 100/1.0A	1			
3-D605 ED-702195 D SILICON 1S1555V-TP3 3-L102 EO-742246 COIL FM-CHOKE 4-D825 ED-709419 D LED LN410YP 4-R708 ER-749298 RS1M-120	3-D603	ED-306724	D SILICON S5277B 100/1.0A	· [
3-L102 EO-742246 COIL FM-CHOKE 4-R708 ER-749298 RS1M-120	3-D604	ED-702195	D SILICON 1S1555V-TP3				
S E 10 E O 1 E E 10 O O O D E IN CITO NE	3-D605	ED-702195	D SILICON 1S1555V-TP3				
3-L103 EO-741909 AF CHOKE COIL AC-3750 4-R709 ER-329279 R OMF H FS 1W 271J	3-L102	EO-742246	COIL FM-CHOKE				
	3-L103	EO-741909	AF CHOKE COIL AC-3750		4-R709	ER-329279	R OMF H FS 1W 271J

4. CONTROL P.C BOARD BLOCK

ASSEMBLY BLOCK

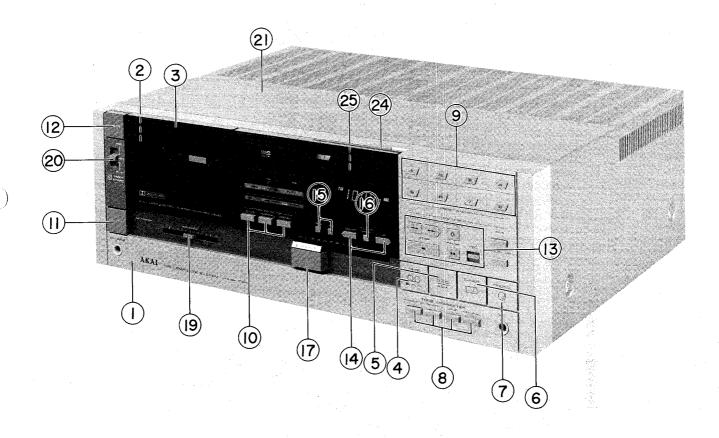




5. ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS NO.	DESCRIPTION
5-1U	BT-709396	↑ TRANS POWER FD-1 (U)	5-5 U	SP-711424	PANEL REAR FD-1 (U)
5-1C	BT-711442	↑ TRANS POWER FD-1 (C,A)	5-5C	SP-711425	PANEL REAR FD-1 (C.A)
5-1 E	BT-711443	⚠ TRANS POWER FD-1 (E)	5-5 E	SP-711426	PANEL REAR FD-1 (E)
5-1S	BT-711444	⚠ TRANS POWER FD-1 (S,B)	5-5S		PANEL REAR FD-1 (S)
5-2U	EF-702200	↑ FUSE 1S-T (U,E,S)	5-6	SZ-710453	HOLDER ANT
5-2C	EF-711445	↑ FUSE 1.5A (C,A)	5-7	EJ-710451	TERMINAL SCREW 4P
5-3	ES-709398	⚠ SW SLIDE (U ONLY)	5-8	SZ-710448	HOLDER CODE
5-4U	EW-343363	⚠ AC CORD 2 CORES KP-8, SPT-2 UC	5-9	SZ-710449	HOLDER CODE
		(U,C,A)	5-10	EE-709445	ANT LOOP
5-4E	EW-313882	⚠ AC CORD 2 CORES KP-419C, LTCE-	5-11	ES-709444	SW SLIDE (S24)
		2F E (E)	5-12	SA-711361	RUBBER FOOT
5-4S	EW-201515	⚠ AC CORD 2 CORES KP-560, LTSA-			
	. **	2F S (S)			

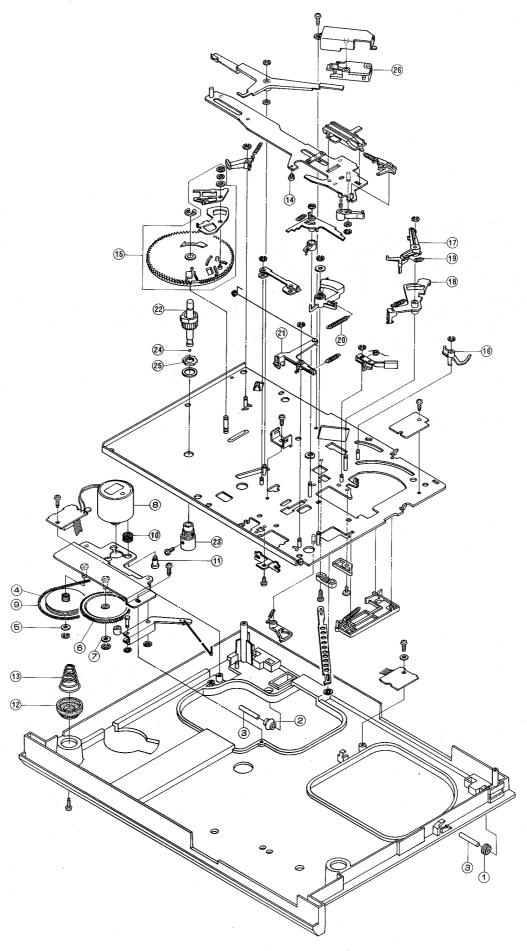
FINAL ASSEMBLY BLOCK



6. FINAL ASSEMBLY BLOCK

REF. NO.	PARTS NO.	DESCRIPTION		REF. NO.	PARTS NO.	DESCRIPTION
6-1	BD-749451	PANEL FRONT BLK FD-1		6-15	SB-711354	BUTTON B.M
6-2	TC-711341	HOLDER CASSETTE		6-16	SB-711355	BUTTON B.M
6-3	SP-711342	LID COVER CASSETTE		6-17	SK-711356	KNOB VOLUME ASSY
6-4	SB-711343	BUTTON MODE (TAPE)		6-18x	SK-711357	SHAFT VOLUME KNOB
6-5	SB-711344	BUTTON MODE (DAD)		6-19	SK-711358	KNOB BALANCE
6-6	SB-711345	BUTTON MODE (TUNER)		6-20	SK-711359	KNOB TIMER
6-7	SB-711346	BUTTON MODE (PHONO)		6-21	SP-711360	COVER UPPER
6-8	SB-711347	BUTTON SELECT		6-22x	MZ-711362	DUMPER (FOR CASSETTE HOLDER)
6-9	SB-711348	BUTTON PRESET ASSY		6-23x	ZG-711363	SP EJECT (FOR CASSETTE HOLDER)
6-10	SB-711349	BUTTON SELECT-T		6-24	SZ-711366	HOLDER CARD
6-11	SB-711350	BUTTON POWER	**	6-25	SZ-711367	FILTER LED
6-12	SB-711351	BUTTON EJECT		6-26x	TA-711371	SHEET STATION
6-13	SB-711352	BUTTON HOLDER ASSY		6-27x	TA-711372	STATION CARDS
6-14	SR-711353	BUTTON TUNE			•	

MECHA AND FA CHASSIS BLOCK



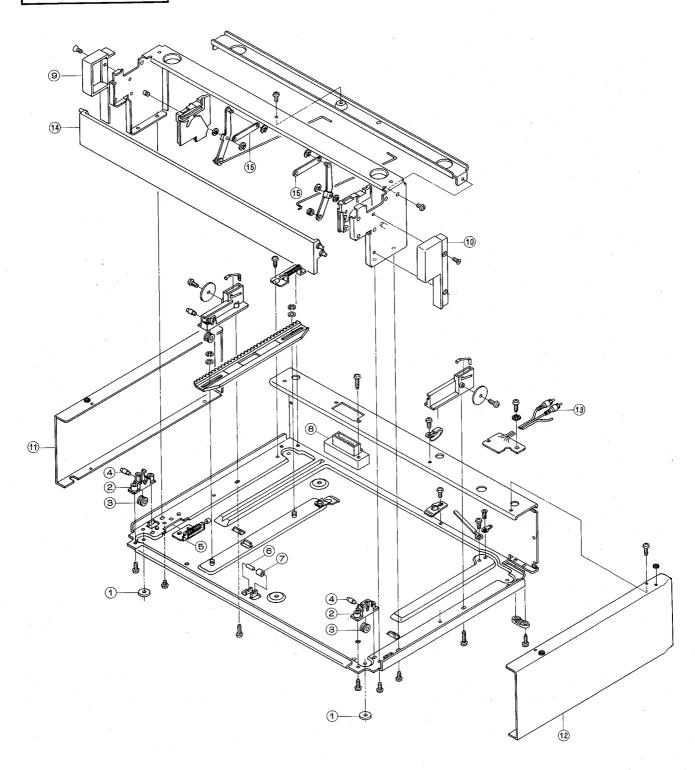
1. P.C BOARD BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
1-1	ES-711327	SW PUSH 5THROW (SW1,2)
1-TR1	ET-701062	TR 2SD880 Y
1-D1	ED-308951	D ZENER WZ-120
1-D2	ED-306724	D SILICON S5277B 100/1.0A
1-VR1	EV-711331	R S-FIX 502
1-VR2	EV-711332	R S-FIX 103
1-D3	ED-711333	D LED GL-9PG34
1-D4	ED-711333	D LED GL-9PG34
1-SW3	ES-711334	SW SLIDE

2. MECHA AND FA CHASSIS BLOCK

REF. NO.	PARTS NO.	DESCRIPTION
2-1	MR-711295	ROLLER
2-2	MR-711299	ROLLER B
2-3	MS-711300	SHAFT ROLLER B
2-4	MR-711301	GEAR PULLEY
2-5	ZW-269954	PW31×070×025PSL
2-6	MZ-711302	GEAR DRIVE
2-7	ZW-259738	PW41×070×025PSL
2-8	BM-711303	MOTOR NG (W/PULLEY) PART
2-9	MB-711304	BELT
2-10	MB-711285	CUSHION RUBBER
2-11	ZS-711305	SCREW SPL
2-12	MB-711282	CUSHION RUBBER
2-13	ZG-711283	SP PUSH
2-14	ZW-302909	RV NYL30x035 BL
2-15	TP-711313	GEAR MAIN ASSY
2-16	ML-711314	LINK SW
2-17	ML-711315	ARM MICRO SW
2-18	ML-711316	LEVER MICRO SW
2-19	ZG-711317	SP PULL
2-20	ZG-711318	SP 035TN30.5
2-21	ML-711319	LEVER START
2-22	TP-711320	SHAFT TT ASS
2-23	MV-711321	BEARING TT SHAFT
2-24	MV-711322	STEEL BELL 1/8
2-25	ZW-711323	
2-26	ES-711335	SW MICRO (SW4)

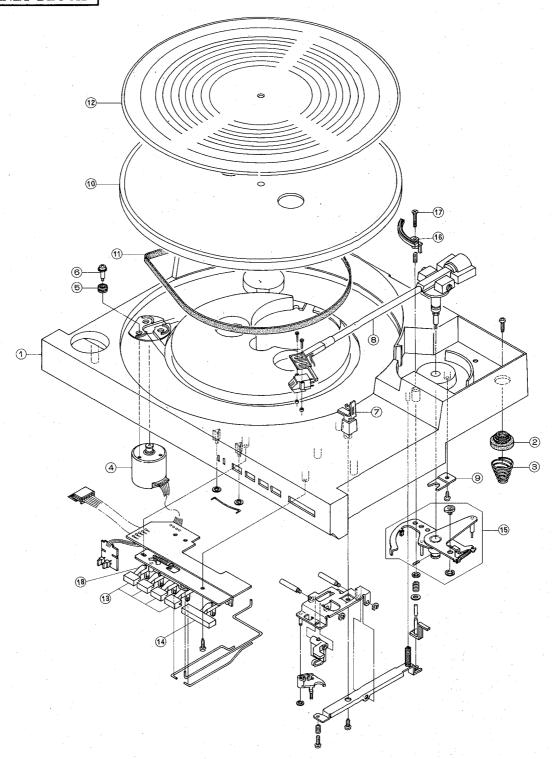
ASSEMBLY BLOCK



3. ASSEMBLY BLOCK

REF. NO.	PARTS N	O. DESCRIPTION		REF. NO.	PARTS N	O. DESCRIPTION
3-1	SA-711293	FOOT	•	3-9	SD-711308	DECOLATION-L
3-2	MZ-711294	HOLDER ROLLER		3-10	SD-711309	DECOLATION-R
3-3	MR-711295	ROLLER		3-11	SP-711310	COVER (L)
3-4		SHAFT ROLLER		3-12	SP-711311	COVER (R)
3-5	TP-711297	STOPPER SW F ASSY		3-13	EW-711312	AUDIO CODE US1P
3-6		SHAFT ROLLER		3-14	SP-711329	FRONT COVER
3-7	MR-711298			3-15	ML-711330	JOINT
3-8		PLUG POWER M1673 6P	.'			

CABINET BLOCK



4. CABINET BLOCK

					The second second second second
REF. NO.	PARTS NO.	DESCRIPTION	REF. NO.	PARTS N	IO. DESCRIPTION
4-1	BC-711281	CABINET	4-11	MB-711291	BELT
4-2	MB-711282	CUSHION RUBBER	4-12	TP-711292	TABLE SHEET UL
4-3	ZG-711283	SP PUSH	4-13	SK-711306	BUTTON SELECT
4-4	BM-711284	MOTOR EG (W/PULLEY) PART	4-14	SK-711307	BUTTON
4-5	MB-711285	CUSHION RUBBER	4-15	TP-711324	PU PLATE ASSY
4-6	ZS-711286	SCREW SPL	4-16	TP-711325	BAR LIFT
4-7	SD-711287	REST PU	4-17	ZS-711326	FLT20×12BLK
4-8	TP-711288	ARM PU BLK	4-18	SZ-711328	JOINT BUTTON
4-9	TP-711289	CLAMPER PU ARM	•		
4-10	TP-711290	TURNTABLE			

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MODEL FD-1

MODEL FI								
PARTS NO.	REF. NO.	PARTS NO.	REF. NO.	PART NO.	REF. NO.	PARTS NO.	REF. NO.	PARTS NO. REF. NO.
BA-711430 BA-711431 BA-749453 BA-749454 BA-749455 BB-711481	3-1U 3-1C 2-1U 2-1C 2-1S 1-1	ED-702195 ED-702195 ED-702236 ED-702236 ED-702236 ED-703243	3-D604 3-D605 2-D702 2-D703 2-D704 4-D606	ER-331618 ER-33085 ER-333120 ER-333120 ER-336841 ER-658034	2-R553 2-R839 2-R007 2-R008 2-R013 2-R854	ET-330225 ET-330225 ET-330225 ET-330225 ET-330225	2-TR481 2-TR501 2-TR703 2-TR303 2-TR304 2-RT801	MT-711375 1-4 MT-711377 1-6 MV-711382 1-12 MV-711398 1-56 MZ-711362 6-22 X MZ-711399 1-57
BD-749451 BF-711395 BL-711389 BM-711391 BM-711410	6-1 1-52 1-34 1-45	ED-703290 ED-703310 ED-703310 ED-707776	2-D001 4-D205 4-D204 2-D002	ER-701107 ER-704152 ER-704152 ER-704152	3-R230 2-R710 3-R259 3-R269 2-R511	ET-330225 ET-330225 ET-330225 ET-330225	2-TR804 2-TR311 2-TR312 2-TR817	MZ-711406 1-68 MZ-711414 1-84 MZ-711416 1-86 SA-711361 5-12
BT-709396 BT-709406 BT-709407 BT-711442 BT-711444 EC-709431 EC-709431	5-1U 3-IT201 3-IT202 5-1C 5-1E 5-1S 2-CT701 2-CT702	ED-709401 ED-709419 ED-709420 ED-709421 ED-709421 ED-709421 ED-709421 ED-709421	3-D101 4-D825 4-D824 4-D451 4-D452 4-D453 4-D454 4-D607	ER-704154 ER-704154 ER-704608 ER-706608 ER-709408 ER-709408 ER-709423	2-R512 2-R380 3-R101 3-R220 3-CF201 3-CF202 2-L301 2-L302	ET-330225 ET-330225 ET-330225 ET-330225 ET-330225 ET-330225 ET-330225	3-TR202 3-TR203 3-TR204 3-TR205 3-TR206 3-TR209 3-TR210 3-TR601 3-TR601	SB-711343 6-4 SB-711344 6-5 SB-711344 6-5 SB-711345 6-6 SB-711347 6-8 SB-711348 6-9 SB-711349 6-10 SB-711350 6-11
EC-710377 EC-710377 EC-710378 EC-749457 ED-306724 ED-306724 ED-306724 ED-310578 ED-310578	2-C003 2-C004 2-C005 3-TC1 2-D820 2-D821 3-D602 3-D603 2-D004 2-D005	ED-709421 ED-709421 ED-709421 ED-709421 ED-709421 ED-709421 ED-709426 ED-709426 ED-709441	4-D608 4-D609 4-D610 4-D611 4-D612 4-D613 4-D614 2-D312 2-D313 2-D003	ER-711438 ER-711440 ER-749298 ER-749370 ER-749371 ER-749372 ER-749373 ES-709398	3-R601 3-R602 3-R603 4-R708 2-R001 2-R002 2-R010 2-R011 2-R012 5-3	ET-330225 ET-330225 ET-336864 ET-336864 ET-337759 ET-337759 ET-337759 ET-337759 ET-337759	3-TR604 3-TR610 2-TR302 2-TR301 3-TR602 2-TR326 2-TR325 2-TR306 2-TR307 2-TR308	SB-711351 6-12 SB-711352 6-13 SB-711353 6-14 SB-711354 6-15 SB-711355 6-16 SK-711356 6-17 SK-711357 6-18X SK-711358 6-19 SK-711359 6-20 SP-711342 6-3
ED-702195 ED-702195	2-D822 3-D203 2-D006 4-D823 4-D304 4-D704 4-D705 4-D706 2-D803 2-D804 2-D805	ED-709441 EE-709403 EE-709445 EF-702200 EF-711445 EI-213390 EI-305456 EI-344436 EI-344437 EI-344438 EI-701061	3-D202 3-2 5-10 5-2U 5-2C 2-IC481 2-IC802 3-IC601 3-IC602 3-IC603 3-IC202	ES-709416 ES-709417 ES-709418 ES-709418 ES-709418 ES-709418 ES-709418 ES-709418 ES-709418	4-S23 4-S21 4-S22 4-S1 4-S2 4-S3 4-S4 4-S5 4-S6 4-S7 4-S8	ET-337759 ET-337759 ET-337759 ET-338565 ET-338565 ET-338565 ET-338565 ET-702700 ET-702700 ET-702700 ET-703397	2-TR310 2-TR309 2-TR305 2-TR315 2-TR316 2-TR323 2-TR324 3-TR201 3-TR201 3-TR607 2-TR816	SP-711360 6-21 SP-711424 5-5U SP-711425 5-5C SP-711426 5-5E SP-711427 5-5S SZ-710448 5-8 SZ-710449 5-9 SZ-710453 5-6 SZ-711366 6-24 SZ-711367 6-25 TA-711371 6-26X
ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195	2-D806 2-D807 2-D808 2-D809 2-D810 2-D811 2-D812 2-D813 2-D814 2-D815	EI-702184 EI-702184 EI-709247 EI-709247 EI-709399 EI-709422 EI-709427 EI-709439 EJ-702181	2-IC501 2-IC502 2-IC303 2-IC304 3-IC201 2-IC301 2-IC803 2-IC801 2-IC451 2-J4	ES-709418 ES-709418 ES-709418 ES-709418 ES-709418 ES-709418 ES-709418 ES-709418 ES-709418	4-S10 4-S11 4-S12 4-S13 4-S14 4-S15 4-S16 4-S17 4-S18 4-S19	ET-709400 ET-709429 ET-709429 ET-711433 ET-741902 ET-741903 ET-741903 ET-741903 ET-741903	3-TR101 2-TR813 2-TR815 3-TR211 3-TR212 2-TR802 2-TR803 3-TR207 3-TR208 2-TR701	TA-711372 6-27X TC-711341 6-2 ZG-703359 1-11 ZG-711363 6-23X ZG-711376 1-5 ZG-711384 1-14 ZG-711385 1-16 ZG-711390 1-35 ZG-711396 1-53 ZG-711401 1-60
ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195	2-D816 2-D817 2-D818 2-D819 2-D802 2-D826 2-D827 2-D828 2-D829 2-D830	EJ-709432 EJ-709432 EJ-710451 EJ-749374 EM-709415 EO-702240 EO-702240 EO-709404 EO-709405 EO-709409	2-J2 2-J3 5-7 2-J1 3-FL1 2-L306 2-L305 3-L104 3-L105 3-LC201	ES-709418 ES-709433 ES-709438 ES-709440 ES-709444 ES-709453 ES-711419 ET-306720 ET-308867 ET-308867	4-S20 2-S26 2-S27 2-S28 5-11 2-S25 1-S611 2-TR702 3-TR605 3-TR606	ET-741953 EV-703279 EV-703279 EV-703298 EV-703298 EV-703299 EV-703299 EV-706603 EV-709434	2-TR001 2-TR002 2-VR301 2-VR302 2-VR303 2-VR304 3-VR202 3-VR601 3-VR201 2-VR452	ZG-711405 1-67 ZG-711411 1-80 ZG-711412 1-81 ZS-709376 5-1U ZS-711378 1-7 ZS-711379 1-8 ZS-711394 1-51 ZW-711373 1-2 ZW-711388 1-33 ZW-711393 1-50
ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195	2-D301 2-D302 2-D303 2-D305 2-D306 2-D307 2-D308 2-D309 2-D310 2-D311	EO-709409 EO-709414 EO-709425 EO-709425 EO-711435 EO-741909 EO-741909 EO-742246 EP-711418	3-L202 3-X1 2-L303 2-L304 2-L701 3-L106 3-L103 3-L201 3-L102 1-L602	ET-308867 ET-308867 ET-325482 ET-325482 ET-325482 ET-325482 ET-325482 ET-325482 ET-325482 ET-325482	3-TR608 3-TR609 2-TR808 2-TR809 2-TR810 2-TR811 2-TR812 2-TR807 2-TR814 2-TR805	MB-711392	2-VR451 5-4S 5-4E 5-4U 1-13 1-9 1-10 1-30 1-47 1-74	ZW-711397 1-54 ZW-711402 1-61
ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195 ED-702195	2-D456 2-D481 2-D482 2-D801 3-D201 3-D206 3-D207 3-D601	EP-711418 ER-305722 ER-306961 ER-306961 ER-321192 ER-324670 ER-324670 ER-329070 ER-329279	1-L601 2-R006 2-R513 2-R514 3-R632 2-R857 2-R003 2-R005 2-R849 4-R709	ET-328861 ET-330225 ET-330225 ET-330225 ET-330225 ET-330225 ET-330225 ET-330225 ET-330225	2-TR806 2-TR313 2-TR314 2-TR317 2-TR318 2-TR319 2-TR320 2-TR322 2-TR322 2-TR327	ML-711386 ML-711400 ML-711403 ML-711404 ML-711407 ML-711415 ML-711417	1-17 1-58 1-64 1-66	

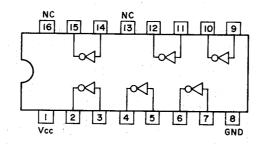
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MODEL FP-3

PS

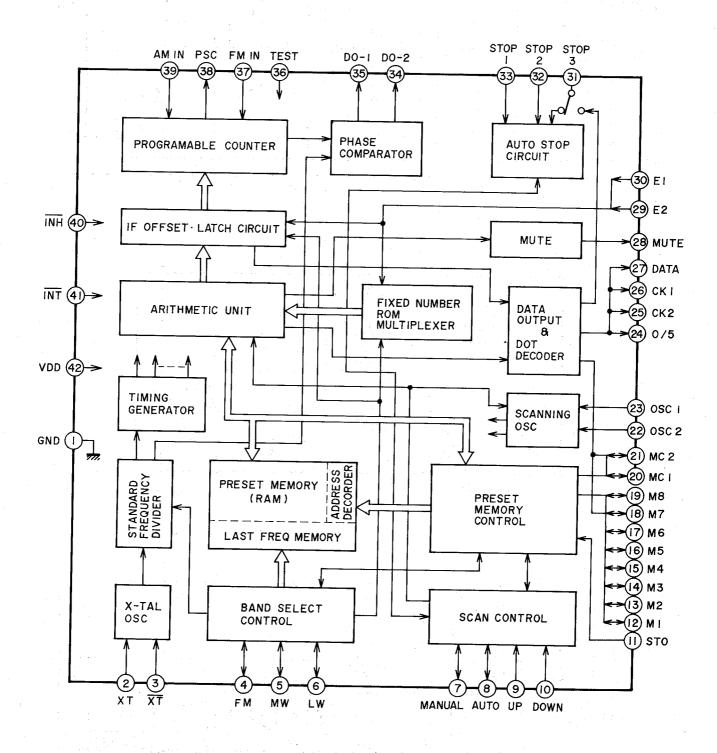
PARTS NO. RE	F. NO.	PARTS NO.	REF. NO.	PARTS NO.	REF NO.	PARTS NO.	REF. NO.	PARTS NO.	REF. NO.
BC-711281 4-1 BM-711284 4-4 BM-711303 2-8 ED-306724 1-D ED-308951 1-D ED-711333 1-D EJ-346330 3-8 ES-711327 1-1 ES-711334 1-SV)2)1)4)3								
ES-711335 2-26 ET-701062 1-T EV-711331 1-V EV-711332 1-V EW-711312 3-12 MB-711282 2-12 MB-711285 4-2 MB-711285 4-5 MB-711291 4-12	TR1 TR1 TR2 3 2								i de la companya de
MB-711304 2-9 ML-711314 2-14 ML-711315 2-17 ML-711316 2-18 ML-711330 3-11 MR-711295 2-1 MR-711295 3-3 MR-711298 3-7 MR-711299 2-2	6 7 8 1 5								
MR-711301 2-4 MS-711296 3-4 MS-711296 3-6 MS-711300 2-3 MV-711321 2-22 MV-711322 2-24 MZ-711294 3-2 MZ-711293 3-1 SD-711287 4-7	3								
SD-711308 3-9 SD-711309 3-10 SK-711306 4-12 SK-711307 4-14 SP-711310 3-11 SP-711311 3-12 SP-711329 3-14 SZ-711328 4-18 TP-711288 4-8 TP-711289 4-9	0 3 4 1 2 4 8								
TP-711290 4-10 TP-711292 4-12 TP-711297 3-5 TP-711313 2-15 TP-711320 2-22 TP-711324 4-15 TP-711325 4-16 TP-711283 2-13 ZG-711283 4-3 ZG-711281 2-19	5 2 5 6 6 3								
ZG-711318 2-20 ZS-711286 4-6 ZS-711305 2-11 ZS-711326 4-17 ZW-259738 2-7 ZW-269954 2-5 ZW-302909 2-14 ZW-711323 2-25	1 7 4								

TC4049BP



TC9147P

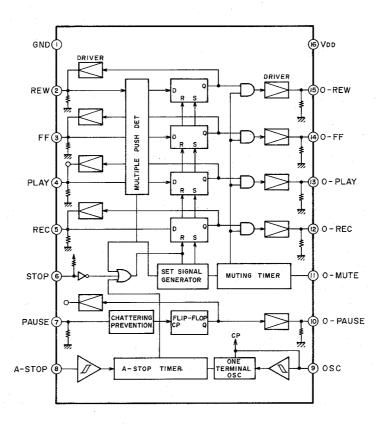
1., SC 2. FD 3. FD 4. FP



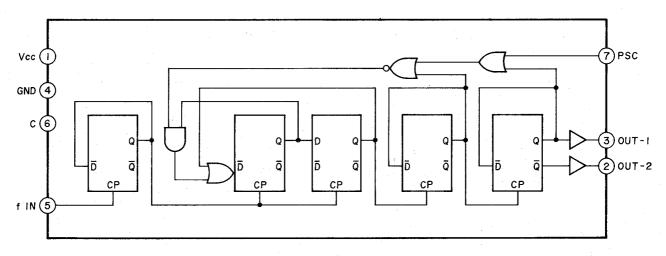
TERMINAL DESCRIPTION OF IC (TC9147P)

Pin No.	Symbol	Meaning	Function
1	GND	Ground	
2	XT	X-TAL OSC Terminals	Input Terminal of Standard Frequency OSC
3	XT	A-TAL OSC Terminals	(X-TAL: 7.2MHz)
4	FM	FM Band Designation Input	
5	MW	MW Band Designation Input	Band Selector
6	LW	LW Band Designation Input	ACTIVE "High"
7	Manual	Manual Tuning Mode	
8	Auto	Auto Tuning Mode	Manual/Auto Tuning Selector
9	UP	UP Operation Key Input	
10	Down	Down Operation Key Input	UP/DOWN Tuning Selector
11	STO	Memory Store Command Input	Memory at preset memory operation
12	M ₁	Preset Memory	Random Access for 16-Preset-Memory with the inputs
19	M8	Channel Designation Inputs	MC1/MC2
20	MC1	Marriage	8 Stations (FM/AM)/16 Stations (FM + MW + LW)
21	MC2	Memory Control Input	Preset Memory Selector
22	OSC2	AM OSC Terminal	CR Connector Terminal for AM Search Scan Speed
23	OSC1	FM OSC Terminal	CR Connection Terminal for FM Search Scan Speed
24	0/5	EM SOLUL O	Level "H" Output for 50kHz Step
2.		FM 50kHz Output	(S. Africa and Europe area)
25	CK2	Possivin - Tu	Control of the Contro
26	CK1	Receiving Frequency Data	Supply Serial Data & Timing Clock to TD6301AP
27	Data	Serial Output	(Receiving Frequency Digital Display Driver)
28	Mute	Muting Signal Output	Level "H" Output when Muting
29	E2	Area Dassination In.	
30	E1	Area Desgination Input	Area Selector (Japan, US, Europe, S. Africa)
31	Stop 3	AM IF Signal Input	Stops Auto Search at AM IF (450kHz)
32	Stop 2	Auto Search Stop Signal Input	Stops Auto Search at Level "H" while level "H" at Stop 1
33	Stop 1	Scan Speed Slow-Down Input	1/2 Speed-Down of Auto Search at Level "H"
34	DO-2	Phase Comparator Output	
35	DO-1		Phase Comparator Output
36	Test	Test Terminal	Test Mode at Level "H"
37	FM in	FM Programable Counter Input	Connected to Prescaler (TD6104P) Output
8	PSC	Prescaler Control Output	Count-Down (1/30, 1/32)
	-20		Designation Output for Prescaler
9	AM in	AM Programable Counter Input	AM Local OSC Signal Input
0	ĪNH	Inhibit Input	Normal at Level "H"
		annor mput	Inhibit at Level "L"
1	ĪNT	Initialize Input	Normal at Level "H"
		micianze mput	Initialize at Level "L"
2 -	V_{DD}	Power Terminal	+5V is supplied

TC9143P



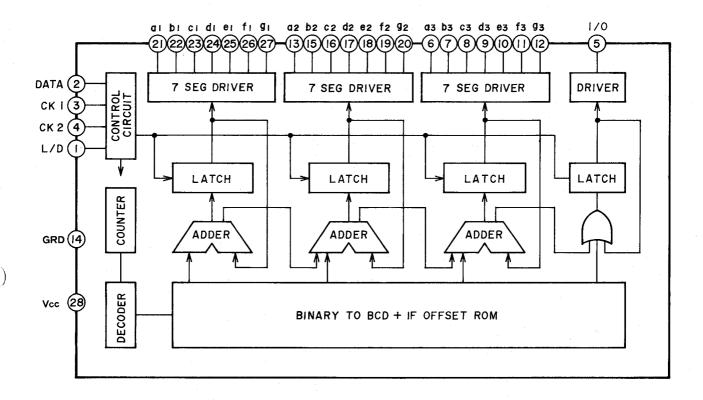
TD6104P



TERMINAL DESCRIPTION OF IC (TD6104P)

Pin No.	Symbol	Description	
5	Fin	FM Local OSC Input	
3	OUT-1	Count-Down Frequency Output (fin/30 or fin/32)	
2	OUT-2	Inverted Output of OUT-1	
7	PCS	Count-Down-Ratio Switch Signal Input $1/32$ at Vpsc $\geq 2V$ $1/30$ at Vpsc $\leq 1V$	
6	С	Bypass condenser terminal for bias circuit	
1	Vcc	+5V	-
4	GND	Ground	

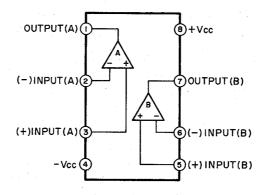
TD6301AP



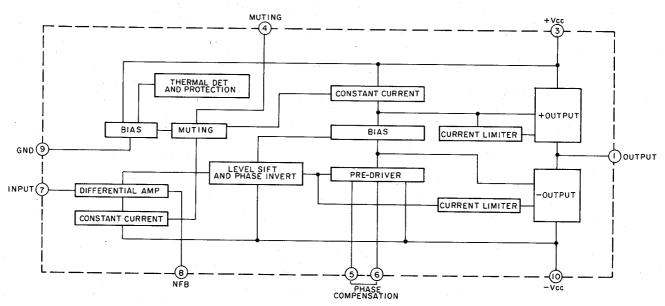
TERMINAL DESCRIPTION OF IC (TD6301AP)

Pin No.	Symbol	Description						
1	L/D	Output Select Signal Input Terminal (To Change the Output for various Display such as LED, FL & LCD)						
2	Data	Receiving Frequency Data Input Terminal (Serial Input from System Controller LSI)						
3	CK1	Control Timing Input Terminal for Receiving Frequency Data Input						
4	CK2	(Simultaneously W/Data from System Controller LSI)						
5	I/0	Segment Driver Output Terminal for: FM: 100 ^S MHz AM: 1000 ^S kHz						
6 ≀ 12	a3	7 Segment Driver Output Terminals for: FM: 10 ^S MHz AM: 100 ^S kHz						
13 15 20	a2	7 Segment Driver Output Terminals for: FM: 1 ^S MHz AM: 10 ^S kHz						
21 27	a1	7 Segment Driver Output Terminals for: FM: 100 ^S kHz AM: 1 ^S kHz						
14	Vcc	-16.8V						
28	GND	-16.8V						

TLO72DE



μ PC1188H



μPC1197C

